



# ATTACHMENT 4

## BUDGET



COSUMNES, AMERICAN, BEAR & YUBA RIVER  
INTEGRATED REGIONAL WATER MANAGEMENT

## **ATTACHMENT 4 INTRODUCTION TO THE BUDGET**

The following section provides detailed budget forms as required by the grant program guidelines, PSP, Round 1 – Implementation Grant (August, 2010).

Each budget has been prepared by the project sponsor and provides a level of details that is commensurate with the design stage of the project. In the case of projects that do not result in construction of facilities, the budget reflects the implementation tasks that will be required to achieve stated project outcomes.

### **Line Item Budget – Budget Documentation**

In addition to the mandated form, each project has prepared a line item budget which supports the budget categories identified in Table 8 of this section. Finally, the line item budgets correlate directly to the tasks identified in the work plan (Attachment 3) and the schedule (Attachment 5).

### **Funding Match**

All project budgets clearly indicate the sources of all funding matches the amount of funding match applied to each task. The total funding match for the Proposal is 10%. However, if the Disadvantaged Communities (DAC), who are exempt from the match, are removed from the formula then the overall match is roughly 30%.

### **September 31, 2008 – December 2010 Match request – Grizzly Flats Reservoir Lining Project.**

Grizzly Flat match calculation includes funds expended in 2010 in support of developing the design and engineering for their Grizzly Flats Reservoir Relining Project. A portion of their overall match is fully documented via invoices, contracts and receipts. Specifically, these funds are a match for Budget Category (c): Planning/Design/Engineering/Environmental Documentation. The match is in two allocations: \$54,205 for engineering and design for the reservoir lining and \$7,814 for permitting (assessment and evaluation). Documentation is available for review by DWR to aid in their determination of whether to allow this match to apply.

### **Disadvantaged Communities – Request for Waiver of Match**

This proposal contains projects from two Disadvantaged Communities (DAC): Nevada City and Washington County Water District (WCWD). The WCWD is characterized as a Severely Disadvantaged Community with a median income of \$21,667. Attachment 12 fully documents the DAC status of each community.

### **Calculations of percentages/DAC:**

Nevada City – the Nevada City engineering staff have considerable experience with replacement of aging infrastructure. It is the formal practice of the department to calculate design (12%) and construction administration (6%) as flat rate calculations based on the

documented experience of the jurisdictions over time. These calculations may vary depending on the specific characteristics of the project or the project site.

WCWD – the project engineer for the district has worked closely with the General Manager to develop the construction estimates for this Proposal. Because no design or engineering work has yet been accomplished, the strategy for developing the engineer's opinion of probable construction costs was to estimate "forward" from the projected engineering costs. This strategy has been used successfully by the engineer, as is currently being employed as a strategy with the CA Department of Parks and Recreation. Thus, since the engineer was able to calculate what it will take in terms of effort to design and engineer the various projects, and since engineering (plans, specifications and estimates) is normally roughly 15 % of the construction cost this formula was used to derive the probable costs for the project – the addition of a 5% "remote location" element was also included.

Table 8 - Summary Budget						
Integrated Regional Water Use Efficiency and Drought Preparedness Program						
Individual Project Title		Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
(a)	Nevada City-Gracie Road Intertie ( <i>Disadvantaged Community</i> )	\$0	\$61,985	\$0	\$61,985	0%
(b)	Nevada City-South Pine Distribution System Improvement ( <i>Disadvantaged Community</i> )	\$0	\$420,437	\$0	\$420,437	0%
(c)	Nevada City-Park Distribution System Improvement ( <i>Disadvantaged Community</i> )	\$0	\$116,660	\$0	\$116,660	0%
(d)	Nevada City-Prospect Street Distribution System Improvement ( <i>Disadvantaged Community</i> )	\$0	\$143,118	\$0	\$143,118	0%
(e)	Nevada City-Installation of Altitude Valves and SCADA System on Storage Tanks ( <i>Disadvantaged Community</i> )	\$0	\$253,745	\$0	\$253,745	0%
(f)	Nevada City-Leak Detection and Repair ( <i>Disadvantaged Community</i> )	\$0	\$287,762	\$0	\$287,762	0%
(g)	Nevada City-Installation of Water Meters on City Facilities ( <i>Disadvantaged Community</i> )	\$0	\$10,715	\$0	\$10,715	0%
(h)	Nevada City Integrated Water Shortage Contingency and Comprehensive Drought Preparedness Program ( <i>Disadvantaged Community</i> )	\$0	\$186,595	\$0	\$186,595	0%
(i)	WCWD-Maybert Road Distribution Line Improvements ( <i>Severely Disadvantaged Community</i> )	\$0	\$439,822	\$0	\$439,822	0%

Individual Project Title		Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
<b>(j)</b>	WCWD-Relief Hill Road - Flow Control Pressure Improvements ( <i>Severely Disadvantaged Community</i> )	\$0	\$299,421	\$0	\$299,421	0%
<b>(k)</b>	WCWD-Level-control Altitude Valves on Storage Tank ( <i>Severely Disadvantaged Community</i> )	\$0	\$295,076	\$0	\$295,076	0%
<b>(l)</b>	WCWD-System-wide Installation of Water Meters ( <i>Severely Disadvantaged Community</i> )	\$0	\$133,420	\$0	\$133,420	0%
<b>(m)</b>	WCWD-Leak Detection and Repair - Needs Assessment and Feasibility Study with Repair of High-priority Leaks ( <i>Severely Disadvantaged Community</i> )	\$0	\$134,536	\$0	\$134,536	0%
<b>(n)</b>	WCWD Integrated Water Shortage Contingency and Comprehensive Drought Preparedness Program ( <i>Severely Disadvantaged Community</i> )	\$0	\$104,625	\$0	\$104,625	0%
<b>(o)</b>	Grizzly Flats-Reservoir Relining	\$156,466	\$405,276	\$0	\$561,742	28%
<b>(p)</b>	Grizzly Flats-Leak Detection and Repair	\$68,100	\$217,920	\$0	\$286,020	24%
<b>(q)</b>	Grizzly Flats Integrated Water Shortage Contingency and Comprehensive Drought Preparedness Program	\$28,000	\$89,565	\$0	\$117,565	24%
<b>(r)</b>	Alta/Colfax-Leak Detection and Repair	\$126,724	\$147,875	\$0	\$274,599	46%
<b>(s)</b>	American Rivers-CABY Water Trust	\$56,800	\$161,711	\$0	\$218,511	26%

Individual Project Title		Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
(t)	Grand Total (sum rows (a) through (s) for each column	\$436,090	\$3,910,264	\$0	\$4,346,354	10%

# Project Budget

Nevada City

Gracie Road Intertie

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 8,350		\$ 8,350	
(b)	Land Purchase/Easement		\$ 75		\$ 75	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 980		\$ 980	
(d)	Construction/Implementation		\$ 38,380		\$ 38,380	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ -		\$ -	
(g)	Other Costs		\$ 8,650		\$ 8,650	
(h)	Construction/Implementation Contingency		\$ 5,550		\$ 5,550	
(i)	Grand Total (sum of rows (a) through (h) for each column)	\$ -	\$ 61,985	\$ -	\$ 61,985	

\*List sources of funding: Use as much space as required



## Project Budget

Nevada City

South Pine Distribution System Improvement

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 29,690		\$ 29,690	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ -		\$ -	
(d)	Construction/Implementation		\$ 332,770		\$ 332,770	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ -		\$ -	
(g)	Other Costs		\$ 8,650		\$ 8,650	
(h)	Construction/Implementation Contingency		\$ 49,327		\$ 49,327	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 420,437</b>	<b>\$ -</b>	<b>\$ 420,437</b>	

\*List sources of funding: Use as much space as required



## Project Budget

Nevada City

### Park Distribution System Improvement

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 10,640		\$ 10,640	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ -		\$ -	
(d)	Construction/Implementation		\$ 84,920		\$ 84,920	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ -		\$ -	
(g)	Other Costs		\$ 8,650		\$ 8,650	
(h)	Construction/Implementation Contingency		\$ 12,450		\$ 12,450	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 116,660</b>	<b>\$ -</b>	<b>\$ 116,660</b>	

\*List sources of funding: Use as much space as required

## Project Budget

Nevada City

### Prospect Street Distribution System Improvement

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 13,960		\$ 13,960	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ -		\$ -	
(d)	Construction/Implementation		\$ 105,040		\$ 105,040	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ -		\$ -	
(g)	Other Costs		\$ 8,650		\$ 8,650	
(h)	Construction/Implementation Contingency		\$ 15,468		\$ 15,468	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 143,118</b>	<b>\$ -</b>	<b>\$ 143,118</b>	

\*List sources of funding: Use as much space as required

## Project Budget

Nevada City

### Installation of Altitude Valves and SCADA System on Storage Tanks

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 17,680		\$ 17,680	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 23,965		\$ 23,965	
(d)	Construction/Implementation		\$ 168,380		\$ 168,380	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ 10,020		\$ 10,020	
(g)	Other Costs		\$ 8,650		\$ 8,650	
(h)	Construction/Implementation Contingency		\$ 25,050		\$ 25,050	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 253,745</b>	<b>\$ -</b>	<b>\$ 253,745</b>	

\*List sources of funding: Use as much space as required

## Project Budget

Nevada City

Leak Detection and Repair

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 22,080		\$ 22,080	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 55,330		\$ 55,330	
(d)	Construction/Implementation		\$ 163,880		\$ 163,880	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ -		\$ -	
(g)	Other Costs		\$ 21,890		\$ 21,890	
(h)	Construction/Implementation Contingency		\$ 24,582		\$ 24,582	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 287,762</b>	<b>\$ -</b>	<b>\$ 287,762</b>	

\*List sources of funding: Use as much space as required

## Project Budget

Nevada City

### Installation of Water Meters on City Facilities

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 1,265		\$ 1,265	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 760		\$ 760	
(d)	Construction/Implementation		\$ 5,435		\$ 5,435	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ 180		\$ 180	
(g)	Other Costs		\$ 3,075		\$ 3,075	
(h)	Construction/Implementation Contingency		\$ -		\$ -	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 10,715</b>	<b>\$ -</b>	<b>\$ 10,715</b>	

\*List sources of funding: Use as much space as required

## Project Budget

Nevada City

Nevada City Integrated Water Shortage Contingency and Comprehensive Drought Preparedness Program

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 29,380		\$ 29,380	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ -		\$ -	
(d)	Construction/Implementation		\$ -		\$ -	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ -		\$ -	
(g)	Other Costs		\$ 157,215		\$ 157,215	
(h)	Construction/Implementation Contingency		\$ -		\$ -	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 186,595</b>	<b>\$ -</b>	<b>\$ 186,595</b>	

\*List sources of funding: Use as much space as required

# Project Budget

WCWD

Maybert Road Distribution Line Improvements

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 24,825		\$ 24,825	
(b)	Land Purchase/Easement		\$ 5,260		\$ 5,260	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 38,360		\$ 38,360	
(d)	Construction/Implementation		\$ 355,867		\$ 355,867	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ 5,000		\$ 5,000	
(g)	Other Costs		\$ 10,510		\$ 10,510	
(h)	Construction/Implementation Contingency				\$ -	
(i)	Grand Total (sum of rows (a) through (h) for each column)	\$ -	\$ 439,822	\$ -	\$ 439,822	

\*List sources of funding: Use as much space as required



## Project Budget

WCWD

Relief Hill Road - Flow Control Pressure Improvements

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 15,500		\$ 15,500	
(b)	Land Purchase/Easement		\$ 2,560		\$ 2,560	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 19,440		\$ 19,440	
(d)	Construction/Implementation		\$ 248,286		\$ 248,286	
(e)	Environmental Compliance/Mitigation/Enhancement				\$ -	
(f)	Construction Administration		\$ 3,125		\$ 3,125	
(g)	Other Costs		\$ 10,510		\$ 10,510	
(h)	Construction/Implementation Contingency				\$ -	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 299,421</b>	<b>\$ -</b>	<b>\$ 299,421</b>	

\*List sources of funding: Use as much space as required

# Project Budget

## WCWD

### Level-control Altitude Valves on Storage Tank

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 16,840		\$ 16,840	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 12,680		\$ 12,680	
(d)	Construction/Implementation		\$ 252,546		\$ 252,546	
(e)	Environmental Compliance/Mitigation/Enhancement				\$ -	
(f)	Construction Administration		\$ 2,500		\$ 2,500	
(g)	Other Costs		\$ 10,510		\$ 10,510	
(h)	Construction/Implementation Contingency				\$ -	
(i)	Grand Total (sum of rows (a) through (h) for each column)	\$ -	\$ 295,076	\$ -	\$ 295,076	

\*List sources of funding: Use as much space as required

# Project Budget

WCWD

## System-Wide Installation of Water Meters

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 11,180		\$ 11,180	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 13,570		\$ 13,570	
(d)	Construction/Implementation		\$ 94,360		\$ 94,360	
(e)	Environmental Compliance/Mitigation/Enhancement				\$ -	
(f)	Construction Administration		\$ 5,000		\$ 5,000	
(g)	Other Costs		\$ 9,310		\$ 9,310	
(h)	Construction/Implementation Contingency				\$ -	
(i)	Grand Total (sum of rows (a) through (h) for each column)	\$ -	\$ 133,420	\$ -	\$ 133,420	

\*List sources of funding: Use as much space as required

## Project Budget

WCWD

Leak Detection and Repair - Needs Assessment and Feasibility Study with Repair of High-priority Leaks

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 10,080		\$ 10,080	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 22,200		\$ 22,200	
(d)	Construction/Implementation		\$ 82,606		\$ 82,606	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ 3,000		\$ 3,000	
(g)	Other Costs		\$ 16,650		\$ 16,650	
(h)	Construction/Implementation Contingency				\$ -	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 134,536</b>	<b>\$ -</b>	<b>\$ 134,536</b>	

\*List sources of funding: Use as much space as required

## Project Budget

### WCWD

#### WCWD Integrated Water Shortage Contingency and Comprehensive Drought Preparedness Program

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 10,810		\$ 10,810	
(b)	Land Purchase/Easement		\$ -		\$ -	
(c)	Planning/Design/Engineering/Environmental Documentation		\$ 3,675		\$ 3,675	
(d)	Construction/Implementation		\$ -		\$ -	
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	
(f)	Construction Administration		\$ -		\$ -	
(g)	Other Costs		\$ 90,140		\$ 90,140	
(h)	Construction/Implementation Contingency				\$ -	
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ -</b>	<b>\$ 104,625</b>	<b>\$ -</b>	<b>\$ 104,625</b>	

\*List sources of funding: Use as much space as required

# Project Budget

## Grizzly Flats

### Reservoir Relining

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$ 22,720	\$ -		\$ 22,720	100%
(b)	Land Purchase/Easement	\$ -	\$ -		\$ -	0%
(c)	Planning/Design/Engineering/Environmental Documentation	\$ 68,519	\$ 6,500		\$ 75,019	91%
(d)	Construction/Implementation	\$ 20,000	\$ 398,776		\$ 418,776	5%
(e)	Environmental Compliance/Mitigation/Enhancement	\$ -	\$ -		\$ -	0%
(f)	Construction Administration	\$ 35,687	\$ -		\$ 35,687	100%
(g)	Other Costs	\$ 9,540	\$ -		\$ 9,540	100%
(h)	Construction/Implementation Contingency				\$ -	0%
(i)	Grand Total (sum of rows (a) through (h) for each column)	\$ 156,466	\$ 405,276	\$ -	\$ 561,742	28%

\*List sources of funding: GFCSD will provide the match for this project from their Capital Improvement Projects Account

## Project Budget

### Grizzly Flats

#### Leak Detection and Repair

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$ 14,480	\$ 14,480		\$ 28,960	50%
(b)	Land Purchase/Easement	\$ -	\$ -		\$ -	0%
(c)	Planning/Design/Engineering/Environmental Documentation	\$ 18,460	\$ 18,460		\$ 36,920	50%
(d)	Construction/Implementation	\$ 35,160	\$ 160,080		\$ 195,240	18%
(e)	Environmental Compliance/Mitigation/Enhancement	\$ -	\$ -		\$ -	0%
(f)	Construction Administration	\$ -	\$ -		\$ -	0%
(g)	Other Costs	\$ -	\$ 6,900		\$ 6,900	0%
(h)	Construction/Implementation Contingency	\$ -	\$ 18,000		\$ 18,000	0%
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ 68,100</b>	<b>\$ 217,920</b>	<b>\$ -</b>	<b>\$ 286,020</b>	<b>24%</b>

\*List sources of funding: GFCSD will provide the match for this project from their Capital Improvement Projects Account



## Project Budget

### Grizzly Flats

#### Grizzly Flats Integrated Water Shortage Contingency and Comprehensive Drought Preparedness Program

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$ -	\$ 8,120		\$ 8,120	0%
(b)	Land Purchase/Easement		\$ -		\$ -	0%
(c)	Planning/Design/Engineering/Environmental Documentation		\$ -		\$ -	0%
(d)	Construction/Implementation		\$ -		\$ -	0%
(e)	Environmental Compliance/Mitigation/Enhancement		\$ -		\$ -	0.0%
(f)	Construction Administration		\$ -		\$ -	0.0%
(g)	Other Costs	\$ 28,000	\$ 81,445		\$ 109,445	25.6%
(h)	Construction/Implementation Contingency		\$ -		\$ -	0.0%
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ 28,000</b>	<b>\$ 89,565</b>	<b>\$ -</b>	<b>\$ 117,565</b>	<b>23.8%</b>

\*List sources of funding: GFCSD will provide the match for this project from their Capital Improvement Projects Account

## Project Budget

Alta/Colfax

Leak Detection and Repair

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$ 5,310	\$ 7,860		\$ 13,170	40%
(b)	Land Purchase/Easement	\$ 3,070	\$ -		\$ 3,070	0%
(c)	Planning/Design/Engineering/Environmental Documentation	\$ 17,863	\$ 122,276		\$ 140,139	13%
(d)	Construction/Implementation	\$ 96,041	\$ 13,299		\$ 109,340	88%
(e)	Environmental Compliance/Mitigation/Enhancement				\$ -	0%
(f)	Construction Administration (included in construction cost - see spreadsheet)				\$ -	0%
(g)	Other Costs	\$ 4,440	\$ 4,440		\$ 8,880	50%
(h)	Construction/Implementation Contingency (included in construction cost - see spreadsheet)				\$ -	0%
(i)	<b>Grand Total (sum of rows (a) through (h) for each column)</b>	<b>\$ 126,724</b>	<b>\$ 147,875</b>	<b>\$ -</b>	<b>\$ 274,599</b>	<b>46%</b>

\*List sources of funding: PCWA will provide their match entirely from their internal capital improvement budget

# Project Budget

American Rivers

CABY Water Trust

		(a)	(b)	(c)	(d)	(e)
	Budget Category	Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs		\$ 10,857		\$ 10,857	0%
(b)	Land Purchase/Easement		\$ -		\$ -	0%
(c)	Planning/Design/Engineering/Environmental Documentation	\$ 42,000	\$ 58,039		\$ 100,039	42%
(d)	Construction/Implementation	\$ 14,800	\$ 82,445		\$ 97,245	15%
(e)	Environmental Compliance/Mitigation/Enhancement				\$ -	0%
(f)	Construction Administration				\$ -	0%
(g)	Other Costs		\$ 10,370		\$ 10,370	0%
(h)	Construction/Implementation Contingency				\$ -	0%
(i)	Grand Total (sum of rows (a) through (h) for each column)	\$ 56,800	\$ 161,711	\$ -	\$ 218,511	26%

\*List sources of funding: Use as much space as required

## BUDGET B: Line Item Budget

Nevada City

Gracie Road Intertie

Task No.	Task Description					Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	Nevada City - Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
Hourly Rate						\$75.00	\$45.00	\$65.00	\$100.00	\$55.00	\$95.00	\$45.00			
Project Duration/Start to Demobilization and Final Report: 240 days (approximately 8 months, weather permitting)															
Budget Category (a): Direct Project Administration Costs															
Task	1	Administration and Management				4	16		2	8		24			
Task	2	Labor Compliance												\$4,000.00	
Task	3	Reporting				2	4		4	16					
					Total Hours	6	20	0	6	24	0	24			
					Hourly Rate	75	45	65	100	55	95	45			
					Total Cost	450	900	0	600	1320	0	1080	\$4,350.00	\$4,000.00	\$8,350.00
Budget Category (b): Land Purchase/Easement															
Task	4	ROW certification				1									
					Total Hours	1	0	0	0	0	0	0			
					Hourly Rate	75	45	65	100	55	95	45			
					Total Cost	75	0	0	0	0	0	0	\$75.00	\$0.00	\$75.00
Budget Category (c): Planning/Design/Engineering/Environmental															
Task	5	Finalize Intertie Specifications with NID				6	6	4							
Task	6	Final design and engineering for Gracie Road Intertie													
		Environmental documentation - COMPLETED													
		Permitting - NONE REQUIRED													
					Total Hours	6	6	4	0	0	0	0			
					Hourly Rate	75	45	65	100	55	95	45			
					Total Cost	450	270	260	0	0	0	0	\$980.00	\$0.00	\$980.00
Budget Category (d): Construction/Implementation															
Task	7	Pre-construction Contracting				4	8					16			
Task	8	Mobilization and Site Preparation												\$1,000.00	
Task	9	Project Construction												\$35,000.00	
Task	10	Performance testing and demobilization												\$1,000.00	
					Total Hours	4	8	0	0	0	0	16			
					Hourly Rate	75	45	65	100	55	95	45			
					Total Cost	300	360	0	0	0	0	720	\$1,380.00	\$37,000.00	\$38,380.00

Task No.	Task Description					Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	Nevada City - Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
Budget Category (e): Environmental Compliance/Mitigation/Enhanceme															
					NOT APPLICABLE										
					Total Hours	0	0	0	0	0	0	0			
					Hourly Rate	75	45	65	100	55	95	45			
					Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Budget Category (f): Construction Administration															
Task	11	Direct Construction Administration													
					Total Hours	0	0	0	0	0	0	0			
					Hourly Rate	75	45	65	100	55	95	45			
					Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Budget Category (g): Other Costs															
Task	12	Develop and maintain CABY project-specific webpage				2	4		8	48	24	8			
Task	13	Data Management					8		2	24		8			
					Total Hours	2	12	0	10	72	24	16			
					Hourly Rate	75	45	65	100	55	95	45			
					Total Cost	150	540	0	1000	3960	2280	720	\$8,650.00	\$0.00	\$8,650.00
Budget Category (h): Construction/Implementation Contingency															
		Construction Contingency (15% of total)													\$5,550.00
Total Hours						19	46	4	16	96	24	56			
Total Cost						\$1,425.00	\$2,070.00	\$260.00	\$1,600.00	\$5,280.00	\$2,280.00	\$2,520.00	\$15,435.00	\$41,000.00	\$61,985.00

## BUDGET TABLE C: CONSTRUCTION COSTS

### Engineer's Opinion of Probable Construction Costs

Project Title: Gracie Road Intertie

**Note: It is the practice of Nevada City to estimate project costs to INCLUDE actual construction - in other words "as built" therefore these costs are not itemized by labor and materials**

	Item Description				Amount
1	vault - 6x10 Christie or equal with metal lid concrete vault				\$ 10,000.00
2	meter (4" meters) sensus/4" turbine				\$ 12,000.00
4	valves (Mueller) service 2360, resilient wedge gate valve 8 - 12" 250 mechanical joint fittings				\$ 5,000.00
misc	pipng/parts/misc (neoprene gaskets, small pipe connections (3/4, 1/1.5 inches), minor drains, screws bolts etc,				\$ 6,000.00
	paving clean up (300 sq ft of ac paving/bedding/aggregate - class 2 aggregate base subgrade, sand backfill material, resurface paving of all disturbed areas/compaction after completion of construction,				\$ 2,000.00
<b>SUBTOTAL</b>					<b>\$ 35,000.00</b>
<b>15% Contingency</b>					<b>\$ 5,250.00</b>
<b>Construction Total</b>					<b>\$ 40,250.00</b>
	Mobilization				\$ 1,000.00
	Demobilization				\$ 1,000.00
<b>SUBTOTAL</b>					<b>\$ 2,000.00</b>
<b>15% Construction Contingency</b>					<b>\$ 300.00</b>
<i>mobilization and demobilization</i>					<b>\$ 2,300.00</b>
<b>PRELIMINARY COST ESTIMATE</b>					<b>\$ 42,550.00</b>

## Budget Workplan Outline

Nevada City

### South Pine Street Distribution System Improvement

Task No.	Task Description	Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	CABY - Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
Hourly Rate		\$75.00	\$45.00	\$65.00	\$100.00	\$55.00	\$95.00	\$45.00			
<b>Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)</b>											
Task 1	Administration and Management	24	40	8	40			80			
Task 2	Labor Compliance Program									\$9,200.00	
Task 3	Reporting	12	20		24	40	6	40			
	Total Hours	36	60	8	64	40	6	120			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	2700	2700	520	6400	2200	570	5400	\$20,490.00	\$9,200.00	\$29,690.00
<b>Budget Category (b): Land Purchase/Easement</b>											
	N/A										
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (c): Planning/Design/Engineering/Environmental Documentation</b>											
Task 4	Final Design for South Pine Distribution System Improvement Environmental Documentation- N/A Permitting- N/A	Engineer's opinion of probable construction cost includes 10% labor for engineering per Nevada City standard practices									
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (d): Construction/Implementation</b>											
Task 5	Pre-construction Contracting- Request for Proposal through notice to proceed	16	8					8			
Task 6	Mobilization and Site Preparation									\$1,000.00	
Task 7	Project Construction	Engineer's opinion of probable construction cost includes all labor for construction per Nevada City standard practices								\$328,850.00	
Task 8	Performance Testing, Demobilization and Post Project Monitoring									\$1,000.00	
	Total Hours	16	8	0	0	0	0	8			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	1200	360	0	0	0	0	360	\$1,920.00	\$330,850.00	\$332,770.00
<b>Budget Category (e): Environmental Compliance/Mitigation/Enhancement</b>											
	N/A										
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (f): Construction Administration</b>											
Task 9	Direct Construction Administration	Engineer's opinion of probable construction cost includes 5% labor for construction admin per Nevada City standard practices									
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00



Task No.	Task Description	Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	CABY - Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
<b>Budget Category (g): Other Costs</b>											
Task 10	Develop and Maintain CABY Project Specific Webpage	2	4		8	48	24	8			
Task 11	Data Management		8		2	24		8			
	Total Hours	2	12	0	10	72	24	16			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	150	540	0	1000	3960	2280	720	\$8,650.00	\$0.00	\$8,650.00
<b>Budget Category (h): Construction/Implementation Contingency</b>											
Nevada City standard practice is to assign a 15% construction contingency										\$49,327.50	\$49,327.50
<b>Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)</b>											
	Total Hours	54	80	8	74	112	30	144			
	Total Cost	\$4,050.00	\$3,600.00	\$520.00	\$7,400.00	\$6,160.00	\$2,850.00	\$6,480.00	\$31,060.00	\$389,377.50	\$420,437.50

## BUDGET TABLE C: CONSTRUCTION COSTS

### Engineer's Opinion of Probable Construction Costs

Project Title: South Pine Distribution System Improvement

	Item Description	Quantity	Unit	Unit Price	Total Price
	8" ductal iron	1750	LF	\$55.00	\$96,250.00
	8" ductal iron (in bridge)	300	LF	\$160.00	\$48,000.00
	tie-in Sacramento	1	ea	\$4,500.00	\$4,500.00
	tie-in Spring St	1	ea	\$4,500.00	\$4,500.00
	fire hydrant	3	ea	\$3,500.00	\$10,500.00
	ditch sand slurry	1750		\$10.00	\$17,500.00
	asphalt concrete	4000	sq ft	\$5.00	\$20,000.00
	water service short	18	ea	\$3,000.00	\$54,000.00
	water service long	5	ea	\$4,000.00	\$20,000.00
	8" ductal iron valves	4	ea	\$800.00	\$3,200.00
	6" ductal iron	400	LF	\$50.00	\$20,000.00
	tie-in Cross/Pine	2	ea	\$3,200.00	\$6,400.00
	sand slurry	400	LF	\$10.00	\$4,000.00
	water service long	4	ea	\$4,000.00	\$16,000.00
	8" ductal iron valves	5	ea	\$800.00	\$4,000.00
SUBTOTAL					\$328,850.00
15% Contingency					\$49,327.50
PRELIMINARY COST ESTIMATE					\$378,177.50

## Budget Workplan Outline

Nevada City

### Park Avenue Distribution System Improvement

Task No.	Task Description	Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
Hourly Rate		\$75.00	\$45.00	\$65.00	\$100.00	\$55.00	\$95.00	\$45.00			
<b>Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)</b>											
Task 1	Administration and Management	4	16	4	10			32			
Task 2	Labor Compliance Program									\$2,800.00	
Task 3	Reporting	4	16		12	8	4	24			
	Total Hours	8	32	4	22	8	4	56			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	600	1440	260	2200	440	380	2520	\$7,840.00	\$2,800.00	\$10,640.00
<b>Budget Category (b): Land Purchase/Easement</b>											
	N/A										
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (c): Planning/Design/Engineering/Environmental Documentation</b>											
Task 4	Final Design for Park Avenue Distribution System Improvement Environmental Documentation- N/A Permitting- N/A	Engineer's opinion of probable construction cost includes 10% labor for engineering per Nevada City standard practices									
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (d): Construction/Implementation</b>											
Task 5	Pre-construction Contracting- Request for Proposal through notice to proceed	16	8					8			
Task 6	Mobilization and Site Preparation									\$1,000.00	
Task 7	Project Construction	Engineer's opinion of probable construction cost includes all labor for construction per Nevada City standard practices								\$81,000.00	
Task 8	Performance Testing, Demobilization and Post Project Monitoring									\$1,000.00	
	Total Hours	16	8	0	0	0	0	8			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	1200	360	0	0	0	0	360	\$1,920.00	\$83,000.00	\$84,920.00
<b>Budget Category (e): Environmental Compliance/Mitigation/Enhancement</b>											
	N/A										
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (f): Construction Administration</b>											
Task 9	Direct Construction Administration	Engineer's opinion of probable construction cost includes 5% labor for construction admin per Nevada City standard practices									
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (g): Other Costs</b>											
Task 10	Develop and Maintain CABY Project-specific Webpage	2	4		8	48	24	8			
Task 11	Data Management		8		2	24		8			
	Total Hours	2	12	0	10	72	24	16			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	150	540	0	1000	3960	2280	720	\$8,650.00	\$0.00	\$8,650.00

Task No.	Task Description	Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
Budget Category (h): Construction/Implementation Contingency											
15% Contingency											
	Total Hours	0	0	0	0	0	0	0		\$12,450.00	\$12,450.00
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$12,450.00	\$12,450.00
Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)											
	Total Hours	26	52	4	32	80	28	80			
	Total Cost	\$1,950.00	\$2,340.00	\$260.00	\$3,200.00	\$4,400.00	\$2,660.00	\$3,600.00	\$18,410.00	\$98,250.00	\$116,660.00

## BUDGET TABLE C: CONSTRUCTION COSTS

### Engineer's Opinion of Probable Construction Costs

Project Title: Park Avenue Distribution System Improvement

	Item Description	Quantity	Unit	Unit Price	Total Price
	6" ductal iron	430	LF	\$50.00	\$21,500.00
	tie-in Nimrod	1	LS	\$3,500.00	\$3,500.00
	tie-in End	1	LS	\$3,000.00	\$3,000.00
	fire hydrant/ass.	1	ea	\$3,500.00	\$3,500.00
	ditch sand slurry	430	LF	\$10.00	\$4,300.00
	asphalt concrete	1000	sqft	\$5.00	\$5,000.00
	water service (short)	5	ea	\$3,000.00	\$15,000.00
	water service (long)	6	ea	\$4,000.00	\$24,000.00
	6" ductal iron valve	2	ea	\$600.00	\$1,200.00
SUBTOTAL					\$81,000.00
15% Contingency					\$ 12,150.00
Construction Total					\$93,150.00
	Mobilization				\$ 1,000.00
	Dembilization				\$ 1,000.00
SUBTOTAL					\$ 2,000.00
15% Contingency					\$ 300.00
					\$ 2,300.00
PRELIMINARY COST ESTIMATE					\$ 95,450.00

## Budget Workplan Outline

Nevada City

### Prospect Street Distribution System Improvement

Task No.	Task Description	Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
Hourly Rate		\$75.00	\$45.00	\$65.00	\$100.00	\$55.00	\$95.00	\$45.00			
<b>Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)</b>											
Task 1	Administration and Management	8	16	4	10			60			
Task 2	Labor Compliance Program									\$3,600.00	
Task 3	Reporting	8	16		12	20	4	24			
	Total Hours	16	32	4	22	20	4	84			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	1200	1440	260	2200	1100	380	3780	\$10,360.00	\$3,600.00	\$13,960.00
<b>Budget Category (b): Land Purchase/Easement</b>											
	N/A										
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (c): Planning/Design/Engineering/Environmental Documentation</b>											
Task 4	Final Design for Prospect Avenue Distribution System Improvement Environmental Documentation- N/A Permitting- N/A	Engineer's opinion of probable construction cost includes 10% labor for engineering per Nevada City standard practices									
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (d): Construction/Implementation</b>											
Task 5	Pre-construction Contracting- Request for Proposal through notice to proceed	16	8					8			
Task 6	Mobilization and Site Preparation									\$1,000.00	
Task 7	Project Construction	Engineer's opinion of probable construction cost includes all labor for construction per Nevada City standard practices								\$101,120.00	
Task 8	Performance Testing, Demobilization and Post Project Monitoring									\$1,000.00	
	Total Hours	16	8	0	0	0	0	8			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	1200	360	0	0	0	0	360	\$1,920.00	\$103,120.00	\$105,040.00
<b>Budget Category (e): Environmental Compliance/Mitigation/Enhancement</b>											
	N/A										
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (f): Construction Administration</b>											
Task 9	Direct Construction Administration	Engineer's opinion of probable construction cost includes 5% labor for construction admin per Nevada City standard practices									
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (g): Other Costs</b>											
Task 10	Develop and Maintain CABY Project-specific Webpage	2	4		8	48	24	8			
Task 11	Data Management		8		2	24		8			
	Total Hours	2	12	0	10	72	24	16			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	150	540	0	1000	3960	2280	720	\$8,650.00	\$0.00	\$8,650.00
<b>Budget Category (h): Construction/Implementation Contingency</b>											
	Nevada City standard practice is to assign a 15% construction contingency									\$15,468.00	\$15,468.00
	Total Hours										
	Hourly Rate										
	Total Cost									\$15,468.00	\$15,468.00
<b>Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)</b>											
	Total Hours	34	52	4	32	92	28	108			
	Total Cost	\$2,550.00	\$2,340.00	\$260.00	\$3,200.00	\$5,060.00	\$2,660.00	\$4,860.00	\$20,930.00	\$122,188.00	\$143,118.00

## BUDGET TABLE C: CONSTRUCTION COSTS

### Engineer's Opinion of Probable Construction Costs

Project Title: Prospect Street Distribution System Improvement

	Item Description	Quantity	Unit	Unit Price	Total Price
	6" ductal iron	612	LF	\$50.00	\$30,600.00
	tie-in Adam St	1	LS	LS	\$3,000.00
	tie-in Clay St	1	LS	LS	\$3,500.00
	fire hydrant/ass.	2	ea	\$3,500.00	\$7,000.00
	ditch sand slurry	612	LF	\$10.00	\$6,120.00
	asphalt concrete	1500	IV	\$5.00	\$7,500.00
	water service (short)	7	ea	\$3,000.00	\$21,000.00
	6" valves	4	ea	\$600.00	\$2,400.00
	water service (long)	5	ea	\$4,000.00	\$20,000.00
<b>SUBTOTAL</b>					\$101,120.00
<b>15% Contingency</b>					\$ 15,168.00
<b>Construction Total</b>					\$116,288.00
	Mobilization				\$ 1,000.00
	Demobilization				\$ 1,000.00
<b>SUBTOTAL</b>					\$ 2,000.00
<b>15% Contingency</b>					\$ 300.00
					\$ 2,300.00
<b>PRELIMINARY COST ESTIMATE</b>					<b>\$118,588.00</b>



Budget Workplan Outline																
Nevada City																
Installation of Altitude Valves with Integrated SCADA Systems on Storage Tanks																
Task No.		Task Description				Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	CABY - Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total	
Hourly Rate						\$75.00	\$45.00	\$65.00	\$100.00	\$55.00	\$95.00	\$45.00				
Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)																
Task	1	Administration and Management				10	12		40	8		40				
Task	2	Labor Compliance Program (N/A)														
Task	3	Reporting				10	10		40	40	10	40				
						Total Hours	20	22	0	80	48	10	80			
						Hourly Rate	75	45	65	100	55	95	45			
						Total Cost	1500	990	0	8000	2640	950	3600	\$17,680.00	\$0.00	\$17,680.00
Budget Category (b): Land Purchase/Easement																
		N/A														
						Total Hours	0	0	0	0	0	0				
						Hourly Rate	75	45	65	100	55	95	45			
						Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Budget Category (c): Planning/Design/Engineering/Environmental Documentation																
Task	4	Assessment and Evaluation (Planning)														
	4.1	Evaluate individual tank requirements				8	8	8	1	2		4				
	4.2	Evaluate and select appropriate integrated altitude valve SCADA system				2	2	4								
	4.3	Administrative reporting and SCADA response protocols				2	6	4	2	4	1	8				
Task	5	Final Design and Engineering for Altitude Valves with Integrated SCADA Systems on Storage Tanks													\$20,040.00	
		Environmental Documentation- N/A														
		Permitting- N/A														
						Total Hours	12	16	16	3	6	1	12			
						Hourly Rate	75	45	65	100	55	95	45			
						Total Cost	900	720	1040	300	330	95	540	\$3,925.00	\$20,040.00	\$23,965.00
Budget Category (d): Construction/Implementation																
Task	6	Pre-construction Contracting- Request for Proposal through notice to proceed				4	8					16				
Task	7	Mobilization and Site Preparation													\$1,000.00	
Task	8	Project Construction													\$165,000.00	
Task	9	Performance Testing, Demobilization and Post Project Monitoring													\$1,000.00	
						Total Hours	4	8	0	0	0	0	16			
						Hourly Rate	75	45	65	100	55	95	45			
						Total Cost	300	360	0	0	0	0	720	\$1,380.00	\$167,000.00	\$168,380.00
Budget Category (e): Environmental Compliance/Mitigation/Enhancement																
		N/A														
						Total Hours	0	0	0	0	0	0	0			
						Hourly Rate	75	45	65	100	55	95	45			
						Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
Budget Category (f): Construction Administration																
Task	10	Direct Construction Administration													\$10,020.00	
						Total Hours	0	0	0	0	0	0	0			
						Hourly Rate	75	45	65	100	55	95	45			
						Total Cost	0	0	0	0	0	0	0	\$0.00	\$10,020.00	\$10,020.00
Budget Category (g): Other Costs																
Task	11	Develop and Maintain CABY Project-specific Webpage				2	4		8	48	24	8				
Task	12	Data Management					8		2	24		8				
						Total Hours	2	12	0	10	72	24	16			
						Hourly Rate	75	45	65	100	55	95	45			
						Total Cost	150	540	0	1000	3960	2280	720	\$8,650.00	\$0.00	\$8,650.00

Task No.		Task Description					Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	CABY - Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total	
Budget Category (h): Construction/Implementation Contingency																	
			Construction Contingency calculated at 15% Construction Cost												\$25,050.00		
							Total Hours	0	0	0	0	0	0	0			
							Hourly Rate	75	45	65	100	55	95	45			
							Total Cost	0	0	0	0	0	0	0	\$0.00	\$25,050.00	\$25,050.00
Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)																	
		Total Hours					38	58	16	93	126	35	124				
		Total Cost					\$2,850.00	\$2,610.00	\$1,040.00	\$9,300.00	\$6,930.00	\$3,325.00	\$5,580.00	\$31,635.00	\$222,110.00	\$253,745.00	

## BUDGET TABLE C: CONSTRUCTION COSTS

### Engineer's Opinion of Probable Construction Costs

Installion of Altitude Valves with Integrated SCADA Systems on Storage Tanks

	Item Description				Amount
	SCADA System - use existing system currently installed in waterwater treatemnt plant, upgrade of software yearly, Allen Braley brand Program Logic Controller (PLC) panel at each resvoir site, altitude control valve at each tank with contact closures to connect to PLC, communication system for Maaster Scada (3 MDS radios), configure screen to show 3 tanks, install reporting system (imbedded in software, system start up and calibration, trainig ofr all associated staff, inlcudes "Wonderware" software				\$ 150,000.00
	SCADA System - 3 PCL, 3 radios, 3 SCADA screens, Reporting systems, staff training, system calibration (as discussed above)				
	Engineers estimate for contractor installation of equipment at each tank (e.g., conduits, wiring, antenna, antenna masts, 120 volt power source)				\$ 15,000.00
<b>SUBTOTAL</b>					\$ 165,000.00
<b>15% Contingency</b>					\$ 24,750.00
<b>Construction Total</b>					\$ 189,750.00
	Mobilization				\$ 1,000.00
	Demobilization				\$ 1,000.00
<b>SUBTOTAL</b>					\$ 2,000.00
<b>15% Contingency</b>					\$ 300.00
<i>Total</i>					\$ 2,300.00
<b>PRELIMINARY COST ESTIMATE</b>					<b>\$ 192,050.00</b>

Budget Workplan Outline

Nevada City

Leak Detection and Repair

Task No.	Task Description	Nevada City Chief Engineer	Nevada City Assistant Engineer	Nevada City Field Staff	Project Manager	CABY - Support Staff	GIS Tech	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
Hourly Rate		\$75.00	\$45.00	\$50.00	\$100.00	\$55.00	\$70.00	\$95.00	\$45.00			
Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)												
Task 1	Administration and Management	16	40	40	8				40			
Task 2	Labor Compliance Program										\$4,000.00	
Task 3	Reporting	20	40	40	8	40		4	40			
	Total Hours	36	80	80	16	40		4	80			
	Hourly Rate	75	45	50	100	55		95	45			
	Total Cost	2700	3600	4000	1600	2200		380	3600	\$18,080.00	\$4,000.00	\$22,080.00
Budget Category (b): Land Purchase/Easement												
	N/A											
	Total Hours	0	0	0	0	0		0	0			
	Hourly Rate	75	45	50	100	55		95	45			
	Total Cost	0	0	0	0	0		0	0	\$0.00	\$0.00	\$0.00
Budget Category (c): Planning/Design/Engineering/Environmental Documentation												
Task 4	Purchase Necessary Equipment and Train City Staff											
4.1	Purchase appropriate leak detection equipment										\$5,830.00	
4.2	Provide technical training and in-field training on targeted zones within the city										\$1,500.00	
Task 5	Develop Leak Detection and Repair Program			960								
	Environmental Documentation- N/A											
Task 6	Develop Specifications and Procedures for Leak Repair Activities											
	Permitting- N/A											
	Total Hours	0	0	960	0	0		0	0			
	Hourly Rate	75	45	50	100	55		95	45			
	Total Cost	0	0	48000	0	0		0	0	\$48,000.00	\$7,330.00	\$55,330.00
Budget Category (d): Construction/Implementation												
Task 7	Pre-construction Contracting- Request for Proposal through notice to proceed											
Task 8	Mobilization and Site Preparation											
Task 9	Project Construction- Repair of High Priority Detected Leaks										\$163,880.00	
Task 10	Performance Testing, Demobilization and Post Project Monitoring											
	Total Hours	0	0	0	0	0		0	0			
	Hourly Rate	75	45	50	100	55		95	45			
	Total Cost	0	0	0	0	0		0	0	\$0.00	\$163,880.00	\$163,880.00
Budget Category (e): Environmental Compliance/Mitigation/Enhancement												
	N/A											
	Total Hours	0	0	0	0	0		0	0			
	Hourly Rate	75	45	50	100	55		95	45			
	Total Cost	0	0	0	0	0		0	0	\$0.00	\$0.00	\$0.00
Budget Category (f): Construction Administration												
Task 11	Direct Construction Administration											
	Total Hours	0	0	0	0	0		0	0			
	Hourly Rate	75	45	50	100	55		95	45			
	Total Cost	0	0	0	0	0		0	0	\$0.00	\$0.00	\$0.00

Task No.	Task Description	Nevada City Chief Engineer	Nevada City Assistant Engineer	Nevada City Field Staff	Project Manager	CABY - Support Staff	GIS Tech	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
<b>Budget Category (g): Other Costs</b>												
Task 12	Develop and Maintain CABY Project-specific Webpage	2	4		8	48		24	8			
Task 13	Data Management		8		2	24			8			
Task 14	Compile Comprehensive Electronic Database of Water System Infrastructure						152				\$2,600.00	
	Total Hours	2	12	0	10	72	152	24	16			
	Hourly Rate	75	45	50	100	55	70	95	45			
	Total Cost	150	540	0	1000	3960	10640	2280	720	\$19,290.00	\$2,600.00	\$21,890.00
<b>Budget Category (h): Construction/Implementation Contingency</b>												
	15% Contingency										\$24,582.00	\$24,582.00
	Total Hours	0	0	0	0	0		0	0			
	Hourly Rate	75	45	50	100	55		95	45			
	Total Cost	0	0	0	0	0		0	0	\$0.00	\$24,582.00	\$24,582.00
<b>Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)</b>												
	Total Hours	38	92	1040	26	112	152	28	96			
	Total Cost	\$2,850.00	\$4,140.00	\$52,000.00	\$2,600.00	\$6,160.00	\$10,640.00	\$2,660.00	\$4,320.00	\$85,370.00	\$202,392.00	\$287,762.00

## BUDGET TABLE C: CONSTRUCTION COSTS

### Engineer's Opinion of Probable Construction Costs

Project Title: Leak Detection and Repair

	Item Description				Amount
	BRAND NAME, LD-15				\$ 3,750.00
	60" long rod for subsurface testing and monitoring				\$ 130.00
	batteries (4 "c" cell batteries - estimated life = 80 hours per set				
	Nevada City staff repair of high-priority leaks averages approximately 8,000 per leak (over the last five years) with an average of <b>20 leaks per year</b>				160,000
SUBTOTAL					\$ 163,880.00
15% Contingency					\$ 24,582.00
Construction Total					\$ 188,462.00
	training cost (assumes two sessions with a total of 6 employees maximum				\$ 1,500.00
SUBTOTAL					\$ 1,500.00
15% Contingency					\$ -
					\$ 1,500.00
PRELIMINARY COST ESTIMATE					\$ 189,962.00

## Budget Workplan Outline

Nevada City

### Installation of Water Meters on City Facilities

Task No.	Task Description	Nevada City Chief Engineer	Nevada City Assistant Engineer	Subconsultant - Technical Specifications	Project Manager	CABY - Support Staff	CABY IT	City Support Staff	Labor Total	Other Direct Costs	Grand Total
Hourly Rate		\$75.00	\$45.00	\$65.00	\$100.00	\$55.00	\$95.00	\$45.00			
<b>Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)</b>											
Task 1	Administration and Management	1	2		1			8			
Task 2	Labor Compliance Program - N/A										
Task 3	Reporting		4		1			8			
	Total Hours	1	6	0	2		0	16			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	75	270	0	200	0	0	720	\$1,265.00	\$0.00	\$1,265.00
<b>Budget Category (b): Land Purchase/Easement</b>											
	N/A										
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (c): Planning/Design/Engineering/Environmental Documentation</b>											
Task 4	Develop Meter Installation Plan	4	4		1			4			
	Pre-Installation Design and Engineering- N/A										
	Environmental Documentation- N/A										
	Permitting- N/A										
	Total Hours	4	4	0	1	0	0	4			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	300	180	0	100	0	0	180	\$760.00	\$0.00	\$760.00
<b>Budget Category (d): Construction/Implementation</b>											
Task 5	Pre-construction Contracting- Request for Proposal through notice to proceed	1	4					4			
Task 6	Mobilization and Site Preparation									\$500.00	
Task 7	Project Construction- Installation									\$4,000.00	
Task 8	Performance Testing, Demobilization and Post Project Monitoring									\$500.00	
	Total Hours	1	4	0	0	0	0	4			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	75	180	0	0	0	0	180	\$435.00	\$5,000.00	\$5,435.00
<b>Budget Category (e): Environmental Compliance/Mitigation/Enhancement</b>											
	N/A										
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (f): Construction Administration</b>											
Task 9	Direct Construction Administration		4								
	Total Hours	0	4	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	180	0	0	0	0	0	\$180.00	\$0.00	\$180.00
<b>Budget Category (g): Other Costs</b>											
Task 10	Develop and Maintain CABY Project specific Webpage	1	2		1	8	16	8			
Task 11	Data Management		2			4		4			
	Total Hours	1	4	0	1	12	16	12			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	75	180	0	100	660	1520	540	\$3,075.00	\$0.00	\$3,075.00
<b>Budget Category (h): Construction/Implementation Contingency</b>											
	Total Hours	0	0	0	0	0	0	0			
	Hourly Rate	75	45	65	100	55	95	45			
	Total Cost	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)</b>											
	Total Hours	7	22	0	4	12	16	36			
	Total Cost	\$525.00	\$990.00	\$0.00	\$400.00	\$660.00	\$1,520.00	\$1,620.00	\$5,715.00	\$5,000.00	\$10,715.00

## Budget Workplan Outline

Nevada City

### Integrated Water Shortage Contingency and Conservation Plan

Task No.	Task Description	General Manager	CABY Project Manager	CABY Project Coordinator	Project Engineer	NC/DEH	IT	CABY Research Technician	Office Manager	Graphics	Office Assistant	Labor Total	Other Direct Costs	Grand Total
	Hourly Rate	\$125.00	\$100.00	\$75.00	\$125.00	\$50.00	\$95.00	\$45.00	\$40.00	\$75.00	\$30.00			
<b>Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)</b>														
Task 1	Administration and Management	8	20	40							40			
Task 2	Labor Compliance- N/A													
Task 3	Reporting	4	16	40	4			12		2	40			
	Total Hours	12	36	80	4	0	0	12	0	2	80			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	1500	3600	6000	500	0	0	540	0	150	2400	\$14,690.00	\$0.00	\$29,380.00
<b>Budget Category (b): Land Purchase/Easement</b>														
	NOT APPLICABLE													
	Total Hours	0	0	0	0	0	0	0	0	0	0	0		
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (c): Planning/Design/Engineering/Environmental Documentation</b>														
	NOT APPLICABLE													
	Total Hours	0	0	0	0	0	0	0	0	0	0	0		
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (d): Construction/Implementation</b>														
	NOT APPLICABLE													
	Total Hours	0	0	0	0	0	0	0	0	0	0	0		
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (e): Environmental Compliance/Mitigation/Enhancement</b>														
	NOT APPLICABLE													
	Total Hours	0	0	0	0	0	0	0	0	0	0	0		
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (f): Construction Administration</b>														
	NOT APPLICABLE													
	Total Hours	0	0	0	0	0	0	0	0	0	0	0		
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (g): Other Costs</b>														
Task 4	Water Shortage Response Feasibility Study and Action Plan	24	12	160	24			40		12	4			
Task 5	Integrated Capital Improvement Plan	16	4	40	16	8								
Task 6	Integrated Customer Water Use Efficiency Initiative													
6.1	Public Outreach		24	40				16		24	24		\$200.00	
6.2	Education and Workshop Activities	32	32	80				20		32	24		\$75.00	
6.3	Distribution of Retrofit Kits	24		4							40		\$3,000.00	
6.4	Comprehensive Drought Action Plan	12	24	56	8	8		8		24	24		\$300.00	
Task 7	Develop and Maintain CABY Project-specific Webpage			4			20				4			
Task 8	Data Management		2	16				12						
	Total Hours	108	98	400	48	16	20	96	0	92	120			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	13500	9800	30000	6000	800	1900	4320	0	6900	3600	\$76,820.00	\$3,575.00	\$157,215.00
<b>Budget Category (h): Construction/Implementation Contingency</b>														
	NOT APPLICABLE													
	Total Hours	0	0	0	0	0	0	0	0	0	0	0		
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)</b>														
	Total Hours	120	134	480	52	16	20	108	0	94	200	\$1,224.00		
	Total Cost	\$15,000.00	\$13,400.00	\$36,000.00	\$6,500.00	\$800.00	\$1,900.00	\$4,860.00	\$0.00	\$7,050.00	\$6,000.00	\$91,510.00	\$7,150.00	\$186,595.00



## Infrastructure System Efficiency Reliability Project

<b><u>Maybert Road Distribution Line Improvements</u></b>						
<b>Description</b>	<b>Organization</b>	<b>Staff</b>	<b>Hours</b>	<b>Rate \$/hr</b>	<b>Cost</b>	<b>Notes</b>
<b>NOTE: All construction activities occur in single construction season</b>						
Budget Category (a) - Direct Project Administration Costs						
Task 1 - Administration and Management						
	WCWD	General Manager	25	\$125	\$3,125	
	Nevada City	Project Manager	20	\$100	\$2,000	
	CABY	Support Staff	22	\$55	\$1,210	
	Nevada City	Support Staff	62	\$45	\$2,790	
<b>Task 1: total cost</b>					<b>\$9,125</b>	
Task 2 - Labor Compliance Program						
	North Valley Labor Compliance Services	Staff			\$8,100	
<b>Task 2: total cost</b>					<b>\$8,100</b>	
Task 3 - Reporting						
	WCWD	General Manager	16	\$125	\$2,000	
	Nevada City	Project Manager	16	\$100	\$1,600	
	CABY	Support Staff	40	\$55	\$2,200	
	Nevada City	Support Staff	40	\$45	\$1,800	
<b>Task 3: total cost</b>					<b>\$7,600</b>	
<b>Task 1-3: total cost</b>					<b>\$24,825</b>	
Budget Category (b): Land Purchase/Easement						
Task 4: Obtain Easement for diverted section of Maybert Road Distribution Line	Project Engineer	Chief Surveyor	8	\$115	\$920	Land Surveying + legal description
	Project Engineer	Crew Chief	10	\$105	\$1,050	Land Surveying + legal description
	Project Engineer	Chainman/Rodman	10	\$75	\$750	Land Surveying + legal description
	WCWD	General Manager	4	\$125	\$500	Liaison with Property Owner

## Infrastructure System Efficiency Reliability Project

	Nevada County	County Counsel	16	\$100	\$1,600	Draft legal agreements and file
	CABY	Support Staff	8	\$55	\$440	Support activities
<b>Task 4: total cost</b>			<b>28</b>		<b>\$5,260</b>	
Budget Category (c): Planning/Design/Engineering/Environmental/Documentation						
Task 5: Field Assessment and Evaluation (Planning)	Project Engineer	Chief Engineer	20	\$125	\$2,500	Land Surveying
	Project Engineer	Chief Surveyor	20	\$115	\$2,300	Land Surveying
	Project Engineer	Crew Chief	20	\$105	\$2,100	Land Surveying
	Project Engineer	n	20	\$75	\$1,500	Land Surveying
<b>Task 5: total cost</b>			<b>80</b>		<b>\$8,400</b>	
Task 6: Final Design and Engineering for Maybert Road PVC Replacement						
	Project Engineer	Chief Engineer	40	\$125	\$5,000	Design Engineering
	Project Engineer	Chief Surveyor	16	\$115	\$1,840	Design Engineering
	Project Engineer	Staff Engineer	40	\$105	\$4,200	Design Engineering
<b>Task 6: total cost</b>			<b>96</b>		<b>\$11,040</b>	
Task 7: Environmental Documentation						
	Nevada City	Project Manager	24	\$100	\$2,400	
	Nevada County Department of Environmental Health	Senior Analyst	16	\$75	\$1,200	Responsible Agency (fee for service)
	CABY	Support Staff	24	\$55	\$1,320	
<b>Task 7: total cost</b>			<b>64</b>		<b>\$4,920</b>	
Task 8: Permitting						
	Project Engineer	Chief Engineer	60	\$125	\$7,500	
	SWPP Plan permit fees				\$1,500	
	County of Nevada - Community Development Agency Grading Permit and associated review fees				\$5,000	
<b>Task 8: total cost</b>			<b>60</b>		<b>\$14,000</b>	

## Infrastructure System Efficiency Reliability Project

Budget Category (d): Construction/Implementation						
Task 9: Pre-Construction Estimates and Contracting						
	Project Engineer	Chief Engineer	20	\$125	\$2,500	Engineers Est. & Process Management
	Project Engineer	Staff Engineer	20	\$105	\$2,100	Engineers Est. & Process Management
	WCWD	General Manager	8	\$125	\$1,000	Assist WCWD Board with contract negotiations
	Nevada City	Project Manager	8	\$100	\$800	Assist with contract negotiations
	Nevada City	Support staff	16	\$45	\$720	
			72		\$7,120	
<b>Task 9: total cost</b>					<b>\$14,240</b>	
Task 10: Mobilization and Site Preparation						
<b>Task 10: total cost</b>						
Task 11: Project Construction						
Preliminary engineer's estimate of construction cost					\$332,427	
		Chief Engineer	40	\$125	\$5,000	Photo recordation & as built drawings
		Staff Engineer	40	\$105	\$4,200	Photo recordation & as built drawings
<b>Task 11: total cost</b>			80		<b>\$341,627</b>	
Task 12: Performance Testing, Demobilization and Post Project Monitoring	Project Engineer	Chief Engineer	20	\$125	\$2,500	Remote & Onsite
<b>Task 12: total cost</b>			20		\$2,500	
Task 13: Direct Construction Administration						
		Chief Engineer	20	\$125	\$2,500	Remote & Onsite
<b>Task 13: total cost</b>			<b>20</b>		<b>\$2,500</b>	
Budget Category (g): Other Costs						
Task 14: Develop and maintain CABY Project-specific web page						
	WCWD	General Manager	4	\$125	\$500	

## Infrastructure System Efficiency Reliability Project

	Project Engineer	neering Technician	12	\$100	\$1,200	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	48	\$55	\$2,640	
	CABY	IT	24	\$95	\$2,280	
	Nevada City	Support Staff	8	\$45	\$360	
<b>Task 14: total cost</b>					<b>\$7,780</b>	
Task 15: Data Management						
	WCWD	General Manager	2	\$125	\$250	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	24	\$55	\$1,320	
	Nevada City	Support Staff	8	\$45	\$360	
<b>Task 15: total cost</b>					<b>\$2,730</b>	
Budget Category (h): Construction/Implementation Contingency						
					<b>\$0</b>	
<b>Total Cost of Element</b>					<b>\$439,822</b>	
Calculated as a percentage based on type, estimated budget, and duration of project, as well as the nature of the construction activities						
<b>ASSUMPTIONS:</b>						
<b>NOTES:</b>						

## Infrastructure System Efficiency Reliability Project

<b><u>Relief Hill Road Flow Control Pressure System Improvements</u></b>						
<b>Description</b>	<b>Organization</b>	<b>Staff</b>	<b>Hours</b>	<b>Rate \$/hr</b>	<b>Cost</b>	<b>Notes</b>
<b>NOTE: All construction activities occur in single construction season</b>						
Budget Category (a) - Direct Project Administration Costs						
Task 1 - Administration and Management						
	WCWD	General Manager	16	\$125	\$2,000	
	Nevada City	Project Manager	20	\$100	\$2,000	
	CABY	Support Staff	22	\$55	\$1,210	
	Nevada City	Support Staff	22	\$45	\$990	
<b>Task 1: total cost</b>					<b>\$6,200</b>	
Task 2 - Labor Compliance Program						
	North Valley Labor Compliance Services	Staff			\$3,000	Calculated as a percentage based on type, estimated budget, and duration of project, as well as the nature of the construction activities
<b>Task 2: total cost</b>					<b>\$3,000</b>	
Task 3 - Reporting						
	WCWD	General Manager	4	\$125	\$500	
	Nevada City	Project Manager	18	\$100	\$1,800	
	CABY	Support Staff	40	\$55	\$2,200	
	Nevada City Support Staff		40	\$45	\$1,800	
<b>Task 3: total cost</b>			<b>102</b>		<b>\$6,300</b>	
<b>Tasks 1-3: Total Costs</b>					<b>\$15,500</b>	
Budget Category (b): Land Purchase/Easement						
Task 4: Finalize Limited Use Agreement with US Forest Service						
	WCWD	General Manager	8	\$125	\$1,000	Negotiations with USFS
	Nevada City	Project Manager	2	\$100	\$200	Asssit with negotiations
	Project Engineer	Chief Surveyor	8	\$115	\$920	USFS mapping and coordination
	CABY	Support Staff	8	\$55	\$440	technical support
<b>Task 4: total cost</b>			<b>26</b>		<b>\$2,560</b>	

## Infrastructure System Efficiency Reliability Project

Budget Category (c): Planning/Design/Engineering/Environmental/Documentation						
Task 5: Field Assessment and Evaluation (Planning)		Chief Engineer	20	\$125	\$2,500	Land Surveying
		Chief Surveyor	20	\$115	\$2,300	Land Surveying
		Crew Chief	20	\$105	\$2,100	Land Surveying
		Chainman/Rodman	20	\$75	\$1,500	Land Surveying
<b>Task 5: total cost</b>			80		\$8,400	
Task 6: Final Design and Engineering for Relief Hill Road Flow Control Pressure System Improvements		Chief Engineer	40	\$125	\$5,000	Design Engineering
		Chief Surveyor	16	\$115	\$1,840	Design Engineering
		Staff Engineer	40	\$105	\$4,200	Design Engineering
<b>Task 6: total cost</b>			96		\$11,040	
Task 7: Environmental Documentation						
<b>Task 7: total cost</b>			0		\$0	
Budget Category (d): Construction/Implementation						
Task 8: Pre-Construction Estimates and Contracting		Chief Engineer	20	\$125	\$2,500	Engin Est. & Project Manage.
		Staff Engineer	20	\$105	\$2,100	Engin Est. & Project Manage.
<b>Task 8: total cost</b>			40		\$4,600	
Task 9: Mobilization and Site Preparation						
<b>Task 9: total cost</b>						
Task 10: Project Construction						
Preliminary engineer's estimate of construction cost					\$234,486	
		Chief Engineer	40	\$125	\$5,000	Photo recordation & as built drawings
		Staff Engineer	40	\$105	\$4,200	Photo recordation & as built drawings
<b>Task 10: total cost</b>			80		\$243,686	
Task 11: Direct Construction Administration		Chief Engineer	25	\$125	\$3,125	Remote & On site
<b>Task 11: total cost</b>			25		\$3,125	
Budget Category (g): Other Costs						
Task 12: Develop and maintain CABY Project-specific web page						
	WCWD	General Manager	4	\$125	\$500	

## Infrastructure System Efficiency Reliability Project

	Project Engineer	Engineering Technician	12	\$100	\$1,200	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	48	\$55	\$2,640	
	CABY	IT	24	\$95	\$2,280	
	Nevada City	Support Staff	8	\$45	\$360	
<b>Task 12: total cost</b>					<b>\$7,780</b>	
Task 13: Data Management						
	WCWD	General Manager	2	\$125	\$250	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	24	\$55	\$1,320	
	Nevada City	Support Staff	8	\$45	\$360	
<b>Task 13: total cost</b>					<b>\$2,730</b>	
Budget Category (h): Construction/Implementation Contingency						
%15 contingency					\$0	Unforseens
<b>Total Cost of Element</b>			<b>267</b>		<b>\$299,421</b>	
<b>ASSUMPTIONS:</b>						
--Limited existing written plans, specifications and design documents & age of facility necessitate land surveying and engineering services as for a new project.						
--Additionally, gathering information to verify the existing facilities increases cost beyond that of a new project. Rates account for prevailing wage rates						
<b>NOTES:</b>						
--The Environmental Documentation for this task will include all WCWD Projects 1 - 5, as these costs do not need to reoccur for each individual project.						
--Stormwater Pollution Prevention Plan (SWPPP) - Project Engineer is certified in preparation of all necessary SWPPP documentation and permitting requirements. Note that the costs associated with this task will cover all WCWD Projects 1 - 5, as these costs do not need to reoccur for each individual project.						
--The contract negotiated as part of this task will result in the identification of a General Contactor who will administer and subcontract as required to complete all 5 contracts within the WCWD Proposal - this task will not be repeated for each project.						
--Mobilization and site preparation, project construction (labor and materials), direct construction administration, and contingency are included in the engineers calculation of probable project construction cost.						

<b>Level Control Altitude Valve Improvements</b>					
<b>Description</b>	<b>Staff</b>	<b>Hours</b>	<b>Rate \$/hr</b>	<b>Cost</b>	<b>Notes</b>
<b>NOTE: All construction activities occur in single construction season</b>					
Budget Category (a) - Direct Project Administration Costs					
Task 1 - Administration and Management					
	General Manager	16	\$125	\$2,000	
	Project Manager	8	\$100	\$800	
	Support Staff	16	\$55	\$880	
	Support Staff	40	\$45	\$1,800	
<b>Task 1: total cost</b>				<b>\$5,480</b>	
Task 2 - Labor Compliance Program					
	North Valley Labor Compliance Services	Staff		\$8,100	Calculated as a percentage based on type, estimated budget, and duration of project, as well as the nature of the construction activities
<b>Task 2: total cost</b>				<b>\$8,100</b>	
Task 3 - Reporting					
	General Manager	4	\$125	\$500	
	Project Manager	8	\$100	\$800	
	Support Staff	16	\$55	\$880	
	Support Staff	24	\$45	\$1,080	
<b>Task 3: total cost</b>				<b>\$3,260</b>	
<b>Tasks 1-3: total cost</b>				<b>\$16,840</b>	
Budget Category (b): Land Purchase/Easement- N/A					
Budget Category (c): Planning/Design/Engineering/Environmental/Documentation					
Task 4: Field Assessment and Evaluation (Planning)	Chief Surveyor	8	\$115	\$920	Land Surveying
	Crew Chief	10	\$105	\$1,050	
	Chainman/Rodman	10	\$75	\$750	
<b>Task 4: total cost</b>		28		<b>\$2,720</b>	
Task 5: Final Design and Engineering for Relief Hill Road Level Control	Chief Engineer	24	\$125	\$3,000	Design Engineering
	Chief Surveyor	24	\$115	\$2,760	
	Staff Engineer	40	\$105	\$4,200	
<b>Task 5: total cost</b>		88		<b>\$9,960</b>	



Environmental Documentation- (See Maybert Road Environmental Documentation Task)					
<b>total cost</b>		0		\$0	
Budget Category (d): Construction/Implementation					
Task 6: Pre-Construction Estimates and Contracting	Chief Surveyor	20	\$115	\$2,300	Engin Est. & Project Manage.
	Staff Engineer	20	\$105	\$2,100	
<b>Task 6: total cost</b>		40		\$4,400	
Preliminary engineer's estimate of construction cost				\$239,046	
Task 7: Project Construction and Site Mobilization	Chief Engineer	20	\$125	\$2,500	Photo recordation & asbuilt drawings
	Staff Engineer	40	\$105	\$4,200	
<b>Task 7: total cost</b>		60		\$245,746	
Task 8: Performance Testing & Demobilization	Chief Engineer	4	\$125	\$500	Line disinfection & pressure test
	Construction	20	\$95	\$1,900	
<b>Task 8: total cost</b>		24		\$2,400	
Task 9: Direct Construction Administration	Chief Engineer	20	\$125	\$2,500	Remote & Onsite
<b>Task 9: total cost</b>		20		\$2,500	
Budget Category (g): Other Costs					
Task 10: Develop and maintain CABY Project-specific web					
	General Manager	4	\$125	\$500	
	Engineering Technician	12	\$100	\$1,200	
	Project Manager	8	\$100	\$800	
	Support Staff	48	\$55	\$2,640	
	IT	24	\$95	\$2,280	
	Support Staff	8	\$45	\$360	
<b>Task 10: total cost</b>				\$7,780	
Task 11: Data Management					
	General Manager	2	\$125	\$250	
	Project Manager	8	\$100	\$800	
	Support Staff	24	\$55	\$1,320	
	Support Staff	8	\$45	\$360	
<b>Task 11: total cost</b>				\$2,730	
Budget Category (h): Construction/Implementation Contingency					
%15 contingency				\$0	Unforseens
<b>Total Cost of Element</b>		260		\$295,076	

<p><b>ASSUMPTIONS:</b></p> <p>--Limited existing written plans, specifications and design documents &amp; age of facility necessitate land surveying and engineering services as for a new project.</p> <p>--Additionally, gathering information to verify the existing facilities increases cost beyond that of a new project. Rates account for prevailing wage rates</p>				
<p><b>NOTES:</b></p> <p>--The Environmental Documentation for this task will include all WCWD Projects 1 - 5, as these costs do not need to reoccur for each individual project.</p> <p>--Stormwater Pollution Prevention Plan (SWPPP) - Project Engineer is certified in preparation of all necessary SWPPP documentation and permitting requirements. Note that the costs associated with this task will cover all WCWD Projects 1 - 5, as these costs do not need to reoccur for each individual project.</p> <p>--The contract negotiated as part of this task will result in the identification of a General Contactor who will administer and subcontract as required to complete all 5 contracts within the WCWD Proposal - this task will not be repeated for each project.</p> <p>--Mobilization and site preparation, project construction (labor and materials), direct construction administration, and contingency are included in the engineers calculation of probable project construction cost.</p>				

System Wide Installation of Water Meters						
Description	Primary Entity	Staff	Hours	Rate \$/hr	Cost	Notes
Budget Category (a) - Direct Project Administration Costs						
Task 1 - Administration and Management						
	WCWD	General Manager	4	\$125	\$500	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	24	\$55	\$1,320	
	Nevada City	Support Staff	40	\$45	\$1,800	
<b>Task 1: total cost</b>					<b>\$4,420</b>	
Task 2 - Labor Compliance Program						
	North Valley Labor Compliance Services	Staff			\$3,600	Calculated as a percentage based on type and duration of project as well as the nature of the construction activities
<b>Task 2: total cost</b>					<b>\$3,600</b>	
Task 3 - Reporting						
	WCWD	General Manager	4	\$125	\$500	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	24	\$55	\$1,320	
	Nevada City Support Staff		12	\$45	\$540	
<b>Task 3: total cost</b>					<b>\$3,160</b>	
<b>Tasks 1-3: total cost</b>					<b>\$11,180</b>	
Budget category (b): Land Purchase/Easement						
not applicable					<b>N/A</b>	
		0		\$0		
Budget Category (c): Planning/Design/Engineering/Environmental/Documentation						
Task 4: Develop policies, administrative systems, and procedures to support ongoing metering activities						
	CABY	Project Manager	16	\$100	1,600	Policies, administrative systems, procedures for illegal hook-ups, policies for replacement of substandard laterals and connections, financing component for future repairs, community outreach during policy development
	CABY	Deputy PM	24	\$80	1,920	
	CABY	Support Staff	8	\$55	440	
	Nevada City	Support Staff	8	\$45	360	
	Project Engineer	Senior Engineer	8	\$125	1,000	
	WCWD	General Manager	12	\$125	1,500	
<b>Task 4: total cost</b>					<b>6,820</b>	
Task 5: Final design and engineering for meter installation						

	Project Engineer	Chief Engineer	16	\$125	\$2,000	
	WCWD	General Manager	16	\$125	\$2,000	
<b>Task 5: total cost</b>					<b>\$4,000</b>	
Task 6: Meter Specifications, Evaluation, pricing and purchase						selected by WCWD - current estimates are from 19,000 to 27,000 for the meters alone, without fixtures/hardware or installation
	Project Engineer	Chief Engineer	4	\$125	\$500	
	WCWD	General Manager	2	\$125	\$250	
<b>Task 6: total cost</b>					<b>\$750</b>	
Task 7: Develop Meter Installation Phasing Plan						
	Project Engineer	Chief Engineer	8	\$125	\$1,000	direct management of installation process
	WCWD	General Manager	8	\$125	\$1,000	local liaison during meter installation
<b>Task 7: total cost</b>			<b>8</b>		<b>\$2,000</b>	
Task 8: Environmental Documentation						
See "Maybert Road Distribution Line Improvements" Environmental Documentation						
Task 9: Permitting						
See "Maybert Road Distribution Line Improvements" Permitting						
Budget Category (d): Construction/Implementation						
Task 10: Pre-construction Contracting - Request For Proposal through Notice to Proceed						
<b>Task 10: total cost</b>					N/A	Included in budget for Maybert Road
Task 11: Mobilization and Site Preparation						
<b>Task 11: total cost</b>						Included in construction estimate, below - based on Engineers formula
Task 12: Project Construction - Meter Installation	Project Engineer	Construction Inspector	24	\$95	\$2,280	Photo recordation & as built drawings
Preliminary engineer's estimate of construction cost					\$91,080	
<b>Task 12: total cost</b>			24		\$93,360	
Task 13: Performance Testing & Demobilization	Project Engineer	Chief Engineer	8	\$125	\$1,000	
<b>Task 13: total cost</b>			8		\$1,000	
Budget Category (e): Environmental Compliance/Mitigation/Enhancement	<i>not applicable</i>				N/A	
Budget Category (f): Construction Administration						
Task 14: Direct Construction Administration						

		Chief Engineer	32	\$125	\$4,000	Estimate based on number of meters, rather than a percentage of cost of meters and installation
		General Manager	8	\$125	\$1,000	
<b>Task 14: total cost</b>			<b>32</b>		<b>\$5,000</b>	
Budget Category (g): Other Costs						
Task 15: Develop and Maintain CABY Project-specific web page						
	WCWD	General Manager	4	\$125	\$500	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	48	\$55	\$2,640	
	CABY	IT	24	\$95	\$2,280	
	Nevada City	Support Staff	8	\$45	\$360	
<b>Task 15: total cost</b>					<b>\$6,580</b>	
Task 16: Data Management						
	WCWD	General Manager	2	\$125	\$250	On site
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	24	\$55	\$1,320	
	Nevada City	Support Staff	8	\$45	\$360	Unforseens
<b>Task 16: total cost</b>					<b>\$2,730</b>	
Budget Category (f): Construction/Implementation Contingency						
<b>%15 contingency of Tasks 8, 9 and 10</b>					<b>\$0</b>	
<b>Total Cost of Element</b>			<b>72</b>		<b>\$133,420</b>	
ASSUMPTIONS:						
--Limited existing written plans, specifications and design documents & age of facility necessitate land surveying and engineering services as for a new project.						
NOTES:						
--The Environmental Documentation for this task will include all WCWD Projects 1 - 5, as these costs do not need to reoccur for each individual project.						
--Stormwater Pollution Prevention Plan (SWPPP) - Project Engineer is certified in preparation of all necessary SWPPP documentation and permitting requirements. Note that the costs associated with this task will cover all WCWD Projects 1 - 5, as these costs do not need to reoccur for each individual project.						
--The contract negotiated as part of this task will result in the identification of a General Contactor who will administer and subcontract as required to complete all 5 contracts within the WCWD Proposal - this task will not be repeated for each project.						
--Mobilization and site preparation, project construction (labor and materials), direct construction administration, and contingency are included in the engineers calculation of probable project construction cost.						

<b>Downtown Leak Detection and Repair (Needs Assessment and Feasibility Study with Repair of Critical Leaks)</b>						
<b>Description</b>		<b>Staff</b>	<b>Hours</b>	<b>Rate \$/hr</b>	<b>Cost</b>	<b>Notes</b>
Budget Category (a) - Direct Project Administration Costs						
Task 1 - Administration and Management						
	WCWD	General Manager	4	\$125	\$500	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	24	\$55	\$1,320	
	Nevada City	Support Staff	40	\$45	\$1,800	
<b>Task 1: total cost</b>					<b>\$4,420</b>	
Task 2 - Labor Compliance Program						
	North Valley Labor Compliance Services	Staff			\$2,500	Calculated as a percentage based on type and duration of project as well as the nature of the construction activities
<b>Task 2: total cost</b>					<b>\$2,500</b>	
Task 3 - Reporting						
	WCWD	General Manager	4	\$125	\$500	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	24	\$55	\$1,320	
	Nevada City Support Staff		12	\$45	\$540	
<b>Task 3: total cost</b>					<b>\$3,160</b>	
<b>Task 1-3: total cost</b>					<b>\$10,080</b>	
Budget category (b): Land Purchase/Easement						
not applicable					N/A	
Budget Category (c): Planning/Design/Engineering/Environmental/Documentation						
Task 4: Field Assessment and Evaluation (Planning)						
Task 4.1 Prepare Leak Detection and Repair Needs Assessment						
	Utility Line Location and Leak Detection/Repair	Crew			\$3,500	Crew of five, plus equipment and 10% consumables, assume \$3500 for a full week completing mapping and detection activities - includes lodging for crew and per diem in Grass Valley
	Project Engineer	Chief Engineer	12	\$125	\$1,500	
	WCWD	General Manager	12	\$125	\$1,500	
	CABY	Project Manager	8	\$100	\$800	
	CABY	GIS	16	\$70	\$1,120	Create full downtown system map based on field identification and survey
	CABY	Deputy Project Manager	24	\$80	\$1,920	
<b>Task 4.1: total cost</b>			72		<b>\$10,340</b>	

Task 4.2 Prepare Leak Repair Feasibility Study	Project Engineer	Chief Engineer	8	\$125	\$1,000	Develop criteria and rank existing leaks
	Project Engineer	Staff Engineer	16	\$105	\$1,680	
	WCWD	General Manager	8	\$125	\$1,000	Develop criteria and rank existing leaks
	CABY	Project Manager	8	\$100	\$800	
	CABY	Deputy Project Manager	24	\$80	\$1,920	
	Utility Line Location and Leak Detection/Repair	Manager	8	\$150	\$1,200	
	Utility Line Location and Leak Detection/Repair	Senior Engineer	8	\$135	\$1,080	
<b>Task 4.2: total cost</b>			80		\$8,680	
<b>Total Task 4</b>					<b>\$19,020</b>	
Task 5: Final Design & Engineering for Repairing Detected Critical Leaks		Chief Engineer	12	\$125	\$1,500	Engineering
		Staff Engineer	16	\$105	\$1,680	Engineering
<b>Task 5: total cost</b>			28		<b>\$3,180</b>	
Task 6: Permits (See Maybert Road Project)						
<b>Task 6: total cost</b>						Included in budget for Maybert Road
Budget Category (d): Construction/Implementation						
Task 7: Pre-Construction Contracting		Chief Engineer	8	\$125	\$1,000	Engineers estimating and specifications
<b>Task 7: total cost</b>			8		<b>\$1,000</b>	
Task 8: Mobilization and Site Preparation- Leak Repair						
<b>Task 8: total cost</b>					N/A	Included in estimate from utility line
Task 9: Project Construction						
		Staff Engineer	20	\$105	\$2,100	Photo recordation & 'as built' drawings
	WCWD	General Manager	8	\$125	\$1,000	Field direction and liaison with property owners
	Utility Line Location and Leak Detection/Repair	Crew			\$75,466	Remote location, distance to staging area and experience in areas with similar aged systems and lack of system information taken into account - also the probability that at least half the high priority repairs will involve replacement rather than repair - construction administration is included at a ratio of 5% (based on previous experience with similar jobs)
<b>Task 9: total cost</b>			28		<b>\$78,566</b>	
Task 10: Performance Testing & Demobilization		Construction Inspector	32	\$95	\$3,040	Const Management
<b>Task 10: total cost</b>			32		<b>\$3,040</b>	
Budget Category (c): Environmental Compliance/Mitigation/Enhancement- N/A						

Budget Category (f): Construction Administration						
Task 11: Direct Construction Administration						
		Chief Engineer	16	\$125	\$2,000	On site for Project Engineer- construction administration for construction company included in cost estimate (see Task 9, above)
		General Manager	8	\$125	\$1,000	
<b>Task 11: total cost</b>			<b>24</b>		<b>\$3,000</b>	
Budget Category (g): Other Costs						
Task 12: Develop and maintain CABY Project-specific web page						
	WCWD	General Manager	4	\$125	\$500	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	48	\$55	\$2,640	
	CABY	IT	24	\$95	\$2,280	
	Nevada City	Support Staff	8	\$45	\$360	
<b>Task 12: total cost</b>					<b>\$6,580</b>	
Task 13: Data Management						
	WCWD	General Manager	2	\$125	\$250	
	Nevada City	Project Manager	8	\$100	\$800	
	CABY	Support Staff	24	\$55	\$1,320	
	Nevada City	Support Staff	8	\$45	\$360	
<b>Task 13: total cost</b>					<b>\$2,730</b>	
Task 14: Mapping	GIS Specialist	Lead Technician	72	\$70	\$5,040	
		GPS Hardware			\$2,300	
<b>Task 14: total cost</b>					<b>\$7,340</b>	
Budget Category (f): Construction/Implementation Contingency						
<b>%15 contingency of Tasks 8, 9 and 10</b>					<b>\$0</b>	<b>Unforseens</b>
<b>Total Cost of Element</b>			<b>200</b>		<b>\$134,536</b>	



<p>ASSUMPTIONS:</p> <p>--Limited existing written plans, specifications and design documents &amp; age of facility necessitate land surveying and engineering services as for a new project.</p> <p>--Additionally, gathering information to verify the existing facilities increases cost beyond that of a new project. Rates account for prevailing wage rates</p>					
<p>--The Environmental Documentation for this task will include all WCWD Projects 1 - 5, as these costs do not need to reoccur for each individual project.</p> <p>--Stormwater Pollution Prevention Plan (SWPPP) - Project Engineer is certified in preparation of all necessary SWPPP documentation and permitting requirements. Note that the costs associated with this task will cover all WCWD Projects 1 - 5, as these costs do not need to reoccur for each individual project.</p> <p>--The contract negotiated as part of this task will result in the identification of a General Contactor who will administer and subcontract as required to complete all 5 contracts within the WCWD Proposal - this task will not be repeated for each project.</p> <p>--Mobilization and site preparation, project construction (labor and materials), direct construction administration, and contingency are included in the engineers calculation of probable project construction cost.</p>					

## Budget Workplan Outline

Washington County Water District

### Rural/DAC Integrated Water Shortage Contingency and Comprehensive Drought Preparedness Project

Task No.	Task Description	General Manager	CABY Project Manager	CABY Project Coordinator	Project Engineer	NC/DEH	IT	CABY Research Technician	Office Manager	Graphics	Office Assistant	Labor Total	Other Direct Costs	Grand Total
Hourly Rate		\$125.00	\$100.00	\$75.00	\$125.00	\$50.00	\$95.00	\$45.00	\$40.00	\$75.00	\$30.00			
<b>Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total)</b>														
Task 1	Administration and Management		20	24							40			
Task 2	Labor Compliance Program	N/A												
Task 3	Reporting	4	16	24	4			12		2	24			
	Total Hours	4	36	48	4	0	0	12	0	2	64			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	500	3600	3600	500	0	0	540	0	150	1920	\$10,810.00	\$0.00	\$10,810.00
<b>Budget Category (b): Land Purchase/Easement</b>														
NOT APPLICABLE														
	Total Hours	0	0	0	0	0	0	0	0	0	0			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (c): Planning/Design/Engineering/Environmental Documentation</b>														
NOT APPLICABLE														
	Total Hours	0	0	0	0	0	0	0	0	0	0			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$3,675.00	\$3,675.00
<b>Budget Category (d): Construction/Implementation</b>														
NOT APPLICABLE														
	Total Hours	0	0	0	0	0	0	0	0	0	0			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (e): Environmental Compliance/Mitigation/Enhancement</b>														
NOT APPLICABLE														
	Total Hours	0	0	0	0	0	0	0	0	0	0			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (f): Construction Administration</b>														
NOT APPLICABLE														
	Total Hours	0	0	0	0	0	0	0	0	0	0			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (g): Other Costs</b>														
Task 4	Water Shortage Response Feasibility Study and Action Plan	24	12	160	24			40		12	4			
Task 5	Integrated Capital Improvement Plan	16	4	40	16	8								
Task 6	Integrated Customer Water Use Efficiency Initiative													
6.1	Public Outreach		16	16				8		12	8		\$200.00	
6.2	Education and Workshop Activities	16	16	40				16		24	16		\$75.00	
6.3	Distribution of Retrofit Kits	16		4									\$2,600.00	
6.4	Comprehensive Drought Action Plan	8	16	128	8	8		8		24	8		\$300.00	
Task 7	Organizational Audit	24	80	80	24	16		40		12	12		\$500.00	
Task 8	Develop and Maintain CABY Project-specific Webpage			4			20				4			
Task 9	Data Management		2	16				12						
	Total Hours	104	146	488	72	32	20	124	0	84	52			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	13000	14600	36600	9000	1600	1900	5580	0	6300	1560	\$90,140.00	\$0.00	\$90,140.00
<b>Budget Category (h): Construction/Implementation Contingency</b>														
N/A														
	Total Hours	0	0	0	0	0	0	0	0	0	0			
	Hourly Rate	125	100	75	125	50	95	45	40	75	30			
	Total Cost	0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00
<b>Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)</b>														
Total Hours		108	182	536	76	32	20	136	0	86	116			
Total Cost		\$13,500.00	\$18,200.00	\$40,200.00	\$9,500.00	\$1,600.00	\$1,900.00	\$6,120.00	\$0.00	\$6,450.00	\$3,480.00	\$100,950.00	\$3,675.00	\$104,625.00

BUDGET B: Line Item Budget									
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Project Name: Grizzly Flats Community Services District
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[illegible]

Task No.	Task Description	General Manager	T3 Operator	T2 Operator	NV City Project Manager	CABY Support Staff	IT	Office Manager	Office Assistant	Labor Total	Other Direct Costs	Requested	% Funding Match	Total
	Hourly Rate	\$50.00	\$40.00	\$40.00	\$100.00	\$55.00	\$95.00	\$40.00	\$30.00					
Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)														
Task 1	Administration and Management	100	100					20						
Task 2	Labor Compliance Program	2	2					1			\$9,500.00			
Task 3	Reporting	40	20					10						
	Total Hours	142	122	0	0	0	0	31	0					
	Hourly Rate	50	40	40	100	55	95	40	30					
	Total Cost	7100	4880	0	0	0	0	1240	0	\$13,220.00	\$9,500.00	\$0.00	\$22,720.00	\$22,720.00
Budget Category (b): Land Purchase/Easement														
	Total Hours													
	Hourly Rate													
	Total Cost	0	0		0			0	0	\$0.00	\$0.00	\$0.00		
Budget Category (c): Planning/Design/Engineering/Environmental Documentation														
	Permitting (Assessment and Evaluation)- Match												\$7,814.00	
	Engineering and Design for Reservoir Lining- Match												\$54,205.00	
	Environmental Documentation (already completed)													
Task 4	Storm Water Pollution Prevention Plan										\$6,500.00		\$6,500.00	
	Total Hours	0	0	0	0	0	0	0	0					
	Hourly Rate	50	40	40	100	55	95	40	30					
	Total Cost	0	0	0	0	0	0	0	0	\$0.00	\$6,500.00	\$6,500.00	\$68,519.00	\$75,019.00
Budget Category (d): Construction/Implementation														
Task 5	Pre Construction Contracting	80	100					40						
Task 6	Mobilization and Site Preparation													
	6.1 Water level draw down	2	8	8										
Task 7	Construction-Installation of Reservoir Lining, Pump Station, and SCADA Equipment													
	7.1 Construct Pump Station										\$29,000.00			
	7.2 Excavate/Compact Reservoir										\$79,775.00			
	7.3 Construct Reservoir Liner										\$111,711.00			
	7.4 Pour Concrete Curb & Install Chain Link Fence										\$12,250.00			
	7.5 Install Reservoir Influent Flow Meter Improvements										\$10,000.00			
	7.6 Install SCADA Equipment and Test										\$101,000.00			
	7.7 Train Operators		4	4							\$2,500.00			
Task 8	Demobilization													
	8.1 Monitoring Plan	8	8					2						
	8.2 Final Inspection to Determine Deficiencies	4	4											
	8.3 Contractor demobilization and erosion control										\$40,000.00			
	8.4 Eleven-Month Warranty Inspections (Within First Year of Installation)	4	4											
	8.5 Deficiencies Corrected by Contractor	4	4											
	Total Hours	102	132	12	0	0	0	42	0					
	Hourly Rate	50	40	40	100	55	95	40	30					
	Total Cost	5100	5280	480	0	0	0	1680	0	\$12,540.00	\$386,236.00	\$398,776.00	\$20,000.00	\$0.00
Budget Category (e): Environmental Compliance/Mitigation/Enhancement														
NOT APPLICABLE														
	Total Hours	0	0	0	0	0	0	0	0					
	Hourly Rate	50	40	40	100	55	95	40	30					
	Total Cost	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00		
Budget Category (f): Direct Construction Administration														

Task No.			Task Description	General Manager	T3 Operator	T2 Operator	NV City Project Manager	CABY Support Staff	IT	Office Manager	Office Assistant	Labor Total	Other Direct Costs	Requested	% Funding Match	Total
Hourly Rate				\$50.00	\$40.00	\$40.00	\$100.00	\$55.00	\$95.00	\$40.00	\$30.00					
Task 9	Direct Construction Administration												\$35,687.45		\$35,687.45	
Total Hours				0	0	0	0	0	0	0	0					
Hourly Rate				50	40	40	100	55	95	40	30					
Total Cost				0	0	0	0	0	0	0	0	\$0.00	\$35,687.45	\$0.00	\$35,687.45	\$0.00
Budget Category (g): Other Costs																
Task 10	Develop and Maintain CABY Project-specific Webpage			8	8		8	48	24	8	8					
Task 11	Data Management			2			8	24		8						
Total Hours				10	8	0	16	72	24	16	8					
Hourly Rate				50	40	40	100	55	95	40	30					
Total Cost				500	320	0	1600	3960	2280	640	240	\$9,540.00	\$0.00	\$0.00	\$9,540.00	\$0.00
Budget Category (h): Construction/Implementation Contingency																
Total Hours				0	0	0	0	0	0	0	0					
Hourly Rate				50	40	40	100	55	95	40	30					
Total Cost				0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00		
Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)																
Total Hours				254	262	12	16	72	24	89	8					
Total Cost				\$12,700.00	\$10,480.00	\$480.00	\$1,600.00	\$3,960.00	\$2,280.00	\$3,560.00	\$240.00	\$35,300.00	\$437,923.45	\$405,276.00	\$156,466.45	\$0.00

## BUDGET B: Line Item Budget

Project Name: Grizzly Flats Community Services District

### Leak Detection and Repair

Task No.	Task Description	General Manager	T3 Operator	T2 Operator	GIS	NV City Project Manager	CABY Support Staff	Office Manager	Office Assistant	Labor Total	Other Direct Costs	Requested	% Funding Match	Grand Total
Hourly Rate		\$50.00	\$40.00	\$40.00	\$70.00	\$100.00	\$55.00	\$40.00	\$30.00					
<b>Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)</b>														
Task 1	Administration and Management	16				24	16		40					
Task 2	Labor Compliance Program	2						1			\$4,500.00			
Task 3	Reporting	4	24		4	16		8	40					
	Total Hours	22	24	0	4	40	16	9	80					
	Hourly Rate	50	40	40	70	100	55	40	30					
	Total Cost	1100	960	0	280	4000	880	360	2400	\$9,980.00	\$4,500.00	\$14,480.00	\$14,480.00	\$28,960.00
<b>Budget Category (b): Land Purchase/Easement</b>														
	Total Hours													
	Hourly Rate													
	Total Cost									\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Budget Category (c): Planning/Design/Engineering/Environmental Documentation</b>														
Task 4	Assessment and Evaluation (Planning)													
4.1	Identify Technical Needs and Requirements	8	8											
4.2	Distribute Specifications, Request Proposals, and Negotiate Equipment Purchase Contract	8	8					16						
4.3	Train Staff to Use Equipment	8	16	16				2			\$5,000.00			
4.4	Compile GIS electronic database of Water System Infrastructure				72						\$4,600.00			
Task 5	Environmental Documentation	6	4					6						
	Total Hours	22	28	16	72	0	0	24	0					
	Hourly Rate	50	40	40	70	100	55	40	30					
	Total Cost	1100	1120	640	5040	0	0	960	0	\$8,860.00	\$9,600.00	\$18,460.00	\$18,460.00	\$36,920.00
<b>Budget Category (d): Construction/Implementation</b>														
Task 6	Pre-Construction Contracting for all Projects - Bid Advertisement, Award and Project Management	50	80					16						
Task 7	Mobilization and Site Preparation													
7.1	Equipment Procurement	2	4					4			\$20,000.00			
7.2	System survey		20								\$6,000.00			
Task 8	Implement Leak Detection and Repair Program													
8.1	Download Logger Records onto Leak Detection Software	4	4											
8.2	Prioritize Detected Leaks		40	40							\$120,000.00			
8.3	Repair High Priority Leaks													
Task 9	Demobilization, Program Evaluation and Reporting	16	24					8						
Task 10	Direct Construction Administration	8	4					8						
	Total Hours	80	176	40	0	0	0	36	0					
	Hourly Rate	50	40	40	70	100	55	40	30					
	Total Cost	4000	7040	1600	0	0	0	1440	0	\$14,080.00	\$146,000.00	\$160,080.00	\$35,160.00	\$195,240.00
<b>Budget Category (e): Environmental Compliance/Mitigation/Enhancement</b>														
	NOT APPLICABLE									\$0.00				
	Total Hours	0	0		0			0	0					
	Hourly Rate													
	Total Cost	0	0		0			0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Budget Category (f): Direct Construction Administration</b>														
See Task 10 above	Total Hours	0	0		0			0	0					
	Hourly Rate	0	0		0			0	0					
	Total Cost	0	0		0			0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Task No.	Task Description	General Manager	T3 Operator	T2 Operator	GIS	NV City Project Manager	CABY Support Staff	Office Manager	Office Assistant	Labor Total	Other Direct Costs	Requested	% Funding Match	Grand Total
Hourly Rate		\$50.00	\$40.00	\$40.00	\$70.00	\$100.00	\$55.00	\$40.00	\$30.00					
Budget Category (g): Other Costs														
Task 11	Develop and Maintain CABY Project-specific Webpage	4	12			10	24		40					
Task 12	Data Management	2				8	24		16					
Total Hours		6	12	0	0	18	48	0	56					
Hourly Rate		50	40	40	70	100	55	40	30					
Total Cost		300	480	0	0	1800	2640	0	1680	\$6,900.00	\$0.00	\$6,900.00	\$0.00	\$6,900.00
Budget Category (h): Construction/Implementation Contingency														
	Calculated at 15% of total construction										\$18,000.00	\$18,000.00		\$18,000.00
Total Hours														
Hourly Rate														
Total Cost											\$18,000.00	\$18,000.00		\$18,000.00
Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)														
Total Hours		130	240	56	76	58	64	69	136					
Total Cost		\$6,500.00	\$9,600.00	\$2,240.00	\$5,320.00	\$5,800.00	\$3,520.00	\$2,760.00	\$4,080.00	\$39,820.00	\$178,100.00	\$217,920.00	\$68,100.00	\$286,020.00

### Engineer's Opinion of Probable Construction Costs

	Item Description	Unit	Quantitiy	Unil Price	Amount
	Repair	LS	20	6000	\$ 120,000.00
	<b>SUBTOTAL</b>				\$ 120,000.00
	<b>15% Contingency</b>				\$ 18,000.00
	<b>Construction Total</b>				\$ 138,000.00
	<b>SUBTOTAL</b>				\$ -
	<b>15% Contingency</b>				\$ -
					\$ -
	<b>PRELIMINARY COST ESTIMATE</b>				\$ 138,000.00

Budget Workplan Outline																
Grizzly Flats Water District																
Rural/DAC Integrated Water Shortage Contingency and Comprehensive Drought Preparedness Project																
Task No.		Task Description	General Manager	CABY Project Manager	CABY Project Coordinator	Project Engineer	NC/DEH	IT	CABY Research Technician	Office Manager	Graphics	Office Assistant	Labor Total	Other Direct Costs	% Funding Match	Grand Total
Hourly Rate			\$125.00	\$100.00	\$75.00	\$125.00	\$50.00	\$95.00	\$45.00	\$40.00	\$75.00	\$30.00				
Budget Category (a): Direct Project Administration Costs (CABY + Sponsor, 5% of total project)																
Task 1	Administration and Management		8	8	16							24				
Task 2	Labor Compliance Program		N/A													
Task 3	Reporting		4	8	24	2			4		2	24				
Total Hours			12	16	40	2	0	0	4	0	2	48				
Hourly Rate			125	100	75	125	50	95	45	40	75	30				
Total Cost			1500	1600	3000	250	0	0	180	0	150	1440	\$8,120.00	\$0.00	\$0.00	\$8,120.00
Budget Category (b): Land Purchase/Easement																
NOT APPLICABLE																
Total Hours			0	0	0	0	0	0	0	0	0	0				
Hourly Rate			125	100	75	125	50	95	45	40	75	30				
Total Cost			0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Budget Category (c): Planning/Design/Engineering/Environmental Documentation																
NOT APPLICABLE																
Total Hours			0	0	0	0	0	0	0	0	0	0				
Hourly Rate			125	100	75	125	50	95	45	40	75	30				
Total Cost			0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Budget Category (d): Construction/Implementation																
NOT APPLICABLE																
Total Hours			0	0	0	0	0	0	0	0	0	0				
Hourly Rate			125	100	75	125	50	95	45	40	75	30				
Total Cost			0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Budget Category (e): Environmental Compliance/Mitigation/Enhancement																
NOT APPLICABLE																
Total Hours			0	0	0	0	0	0	0	0	0	0				
Hourly Rate			125	100	75	125	50	95	45	40	75	30				
Total Cost			0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Budget Category (f): Construction Administration																
NOT APPLICABLE																
Total Hours			0	0	0	0	0	0	0	0	0	0				
Hourly Rate			125	100	75	125	50	95	45	40	75	30				
Total Cost			0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Budget Category (g): Other Costs																
Task 4	Integrated Customer Water Use Efficiency Initiative															
4.1	Public Outreach			24	40				16		24	24		\$200.00		
4.2	Education and Workshop Activities		32	32	80				20		32	24		\$75.00		
4.3	Distribution of Retrofit Kits and Toilet Rebates		24		4							40		\$11,750.00		
4.4	Comprehensive Drought and Conservation Action Plan		36	36	216	32	8		48		36	28		\$400.00		
Task 5	Develop and Maintain CABY Project-specific Webpage				4			20				4				
Task 6	Data Management			2	16				12							
Total Hours			92	94	360	32	8	20	96	0	92	120				
Hourly Rate			125	100	75	125	50	95	45	40	75	30				
Total Cost			11500	9400	27000	4000	400	1900	4320	0	6900	3600	\$69,020.00	\$12,425.00	\$28,000.00	\$109,445.00
Budget Category (h): Construction/Implementation Contingency																
N/A																
Total Hours			0	0	0	0	0	0	0	0	0	0				
Hourly Rate			125	100	75	125	50	95	45	40	75	30				
Total Cost			0	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00
Budget Category (i): Grand Total (Sum Rows (a) through (h) for each column)																
Total Hours			104	110	400	34	8	20	100	0	94	168				
Total Cost			\$13,000.00	\$11,000.00	\$30,000.00	\$4,250.00	\$400.00	\$1,900.00	\$4,500.00	\$0.00	\$7,050.00	\$5,040.00	\$77,140.00	\$12,425.00	\$28,000.00	\$117,565.00

Direct Cost Description  
1 Costs for printed meeting materials, including brochures and agendas  
2 Costs for printed workshop materials, including curriculum, worksheets, and brochures  
3a Costs for retrofit kits (150 @\$20/ea) and toilet rebates (50 @ \$175)  
3b Administrative costs (2 hours/toilet and 8 hours up front @ \$35/hour)  
4 Printed drought action plans (10 @ \$30/ea) and meeting materials and plan cds



**Alta and Colfax Correlating Leak Datalogger installation and Monitoring - Supporting Cost Data**

Task		Units	Unit Costs	Total Cost	Prop 84 Share Cost	PCWA Share Cost
<b>Budget Category (a): Direct Administration Costs</b>						
<b>Task 1 and 3 Project Administration, Management and Reporting (combined per PCWA estimating procedure)</b>						
a	Quarterly reports and invoices			\$ 3,860.00		\$ 3,860.00
b	Final Report			\$ 1,450.00		\$ 1,450.00
c	Overall administration (Nevada City)			\$ 7,860.00	\$ 7,860.00	
	Tasks 1 and 3 Subtotal			\$ 13,170.00	\$ 7,860.00	\$ 5,310.00
	10% Contingency			\$ -	\$ -	\$ -
	<b>Tasks 1 and 3 Total</b>			<b>\$ 13,170.00</b>	<b>\$ 7,860.00</b>	<b>\$ 5,310.00</b>

**Task 2 not applicable as PCWA will do all work using existing staff**

**Budget Categories (b) Land Purchase/Easement and (c) Planning/Design/Engineering**

**Task 4 - Waterline Easement Determination and Task 5 (Tasks 5.1 and 5.2) - Planning /Engineering/Surveying**

b	Surveying - Alta			\$ 2,810.00		\$ 2,810.00
c	Surveying - Colfax			\$ 1,670.00		\$ 1,670.00
d	Monitoring Location Designation - Alta			\$ 730.00		\$ 730.00
e	Monitoring Location Designation - Colfax			\$ 430.00		\$ 430.00
f	Easement Determination (TASK 4)			\$ 3,070.00		\$ 3,070.00
g	Engineering Review			\$ 490.00		\$ 490.00
	Tasks 4 and 5 Subtotal			\$ 9,200.00		\$ 9,200.00
	10% Contingency			\$ 920.00		\$ 920.00
	<b>Tasks 4 and 5 Total</b>			<b>\$ 10,120.00</b>		<b>\$ 10,120.00</b>

**Budget Category (c): Environmental Documentation**

**Task 6 Environmental Documentation**

a	Alta			\$ 3,040.00		\$ 3,040.00
b	Colfax			\$ 1,800.00		\$ 1,800.00
	Task 6 Subtotal			\$ 4,840.00		\$ 4,840.00
	10% Contingency			\$ 484.00		\$ 484.00
	<b>Task 6 Total</b>			<b>\$ 5,324.00</b>		<b>\$ 5,324.00</b>

**Task 7- Permitting (none required)**

**Alta and Colfax Correlating Leak Datalogger installation and Monitoring - Supporting Cost Data**

Task		Units	Unit Costs	Total Cost	Prop 84 Share Cost	PCWA Share Cost
<b>Task 8 (task 8.1) Equipment Procurement</b>						
a	Equipment selection and pricing			\$ 490.00		\$ 490.00
b	Labor			\$ 490.00		\$ 490.00
c	Loggers - Alta			\$ 50,550.00	\$ 50,550.00	
d	Loggers - Colfax			\$ 56,710.00	\$ 56,710.00	
e	Pipe Line Locator			\$ 3,900.00	\$ 3,900.00	
f	Toshiba Lap Top			\$ 4,010.00		\$ 4,010.00
	Task 8.1 Subtotal			\$ 116,150.00	\$ 111,160.00	\$ 4,990.00
	10% Contingency			\$ 11,615.00	\$ 11,116.00	\$ 499.00
	<b>Task 8.1 Total</b>			<b>\$ 127,765.00</b>	<b>\$ 122,276.00</b>	<b>\$ 5,489.00</b>

**Task 8.2 - System Installation and Testing (logger Deployment)**

a	Labor - Alta			\$ 6,080.00		\$ 6,080.00
b	Labor - Colfax			\$ 3,610.00		\$ 3,610.00
c	Equipment - Alta			\$ 820.00		\$ 820.00
d	Equipment - Colfax			\$ 480.00		\$ 480.00
	Task 8.2 Subtotal			\$ 10,990.00		\$ 10,990.00
	10% Contingency			\$ 1,099.00		\$ 1,099.00
	<b>Task 8.2 Total</b>			<b>\$ 12,089.00</b>		<b>\$ 12,089.00</b>

**Task 9 - Implement Leak Detection and Repair Program (Includes Tasks 9.1 and 9.2)**

a	Prioritize and Documentation detected leaks and repairs			\$ 9,030.00		\$ 9,030.00
b	Labor - Alta			\$ 10,210.00		\$ 10,210.00
c	Labor - Colfax			\$ 10,210.00		\$ 10,210.00
d	Material - Alta			\$ 1,720.00	\$ 1,720.00	
e	Material - Colfax			\$ 1,720.00	\$ 1,720.00	
f	Coordination of logger installation, locations, etc			\$ 15,050.00		\$ 15,050.00
g	Equipment - Alta			\$ 2,620.00		\$ 2,620.00
h	Equipment - Colfax			\$ 2,620.00		\$ 2,620.00
i	Outside Services - Paving			\$ 8,800.00		\$ 8,800.00

**Alta and Colfax Correlating Leak Datalogger installation and Monitoring - Supporting Cost Data**

Task	Units	Unit Costs	Total Cost	Prop 84 Share Cost	PCWA Share Cost
Task 9 Subtotal			\$ 61,980.00	\$ 3,440.00	\$ 58,540.00
10% Contingency			\$ 6,198.00	\$ 344.00	\$ 5,854.00
<b>Task 9 (including 9.1 and 9.2)</b>			<b>\$ 68,178.00</b>	<b>\$ 3,784.00</b>	<b>\$ 64,394.00</b>

**Task 10 - Program Evaluation and Reporting**

			\$ 8,650.00	\$ 8,650.00	
a	Logger Download - Alta		\$ 7,390.00		\$ 7,390.00
b	Logger Download - Colfax		\$ 4,370.00		\$ 4,370.00
c	Data Analysis - Alta		\$ 3,780.00		\$ 3,780.00
d	Data Analysis - Colfax		\$ 2,240.00		\$ 2,240.00
	Task 10 Subtotal		\$ 26,430.00	\$ 8,650.00	\$ 17,780.00
	10% Contingency		\$ 2,643.00	\$ 865.00	\$ 1,778.00
	<b>Task 10 Total</b>		<b>\$ 29,073.00</b>	<b>\$ 9,515.00</b>	<b>\$ 19,558.00</b>

**Task 11 - Direct Construction Management has been included in the construction tasks (see individual spreadsheets)**

<b>Task 12 Web Page (CABY)</b>	\$ 6,320.00	\$ 6,320.00	\$ 3,160.00	\$ 3,160.00
all tasks to create,update and maintain				
no contingency required				
<b>Task 12 Total</b>		<b>\$ 6,320.00</b>	<b>\$ 3,160.00</b>	<b>\$ 3,160.00</b>

<b>Task 13 Data Management (CABY)</b>	\$ 2,561.00	\$ 2,561.00	\$ 1,280.50	\$ 1,280.50
all tasks to gather and submit data				
no contingency required				
<b>Task 13 Total</b>		<b>\$ 2,561.00</b>	<b>\$ 1,280.50</b>	<b>\$ 1,280.50</b>

<b>GRAND TOTALS</b>	<b>TOTAL</b>	<b>\$ 274,600.00</b>	<b>\$ 147,875.50</b>	<b>\$ 126,724.50</b>
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PCWA Cost Share Percentage 46%

As undetected leaks are located and repaired, PCWA will incur additional labor and material costs.

Theses costs and estimated amounts of water coserved will be captured and included with quarterly/annual reports

<b>Salary and Wages</b>	<b>Rate</b>	
Service Worker	\$	49.56 Hour
Maintenance Worker II	\$	41.13 Hour
Field Service Supervisor	\$	60.32 Hour
Environmental Specialist	\$	60.32 Hour
Property Specialist	\$	61.32 Hour
Water Management Specialist	\$	60.17 Hour
Canal Operator	\$	47.71 Hour
Engineer II	\$	60.17 Hour
Service Truck	\$	11.00 Hour
Vacuum Trailer	\$	8.00 Hour
Compressor	\$	4.00 Hour
Backhoe	\$	12.00 Hour
Large Pickup	\$	11.00 Hour
Concrete Saw	\$	8.00 Hour
Starter Logger Kit (40 Loggers)	\$	39,500.00 Each
Additional Loggers - Alta	\$	880.00 Each
Additional Loggers - Colfax	\$	880.00 Each
Pipe Line Locator	\$	3,900.00 Each
8 Inch PVC Pipe (valve riser)	\$	6.50 Foot
Valve Box	\$	24.90 Each
Valve Cap	\$	17.32 Each
Toshiba Lap top	\$	4,000.00 Each
Paving	\$	11.00 Sq Ft

Budget category (a): Direct Project Administration Costs - PCWA does its own repair work so no Labor Compliance (Task 2) is required

- Task 1 PCWA routinely combines these tasks  
Task 3 for estimating purposes

Project Administration and Management

Administration and Management								Alta	Colfax	
Task	Employee assigned	Hours	Labor Rate	Sub-Total	Alta** 62.80%	Colfax** 37.20%	Sub-Total	Rounded up to nearest \$10	Rounded up to nearest \$10	Grand Total
Quarterly reports and invoices	Water Management Specialist	64	\$ 60.17	\$ 3,850.88	\$ 2,419.00	\$ 1,432.00	\$ 3,851.00	\$ 2,420.00	\$ 1,440.00	\$ 3,860.00
Final Report	Water Management Specialist	24	\$ 60.17	\$ 1,444.08	\$ 907.00	\$ 538.00	\$ 1,445.00	\$ 910.00	\$ 540.00	\$ 1,450.00
Project Applicant	see below									
Sub-Total							\$ 5,296.00	\$ 3,330.00	\$ 1,980.00	\$ 5,310.00
10% contingency										
Task 1 Total							\$ 5,296.00	\$ 3,330.00	\$ 1,980.00	\$ 5,310.00
Plus Overall PM for Applicant/NC										\$7,860.00
										\$13,170.00

Labor rates include all benefits

\*\* 62.8% of the watermain in this study are in Alta, with the remaining 37.2% of the watermain in Colfax.

Project Applicant/Overall management

	NC Project Manager	CABY - Support Staff	City Support Staff	Labor Total	Other Direct Costs	Grand Total
	\$100.00	\$55.00	\$45.00			
Task 1 - Admin and management	20	16	80		\$100.00	
Task 2 Labor Compliance (NA)						
Task 3 - Reporting	4	16				
total hours	24	32	80			
rate	100	55	45			
total cost	2400	1760	3600	\$7,760.00	\$100.00	\$7,860.00

Budget Category (b) Land Purchase/Easement  
Budget Category (c) Planning/Design/Engineering/Environmental Documentation

Task 5

Planning / Engineering / Surveying

Task	Employee assigned	Hours	Labor Rate	Total	Alta** 62.80%	Colfax** 37.20%	Sub-Total	Alta	Colfax	Grand Total
								Rounded up to nearest \$10	Rounded up to nearest \$10	
Locate/Mark Water Lines	Service Worker	20	\$ 49.56	\$ 991.20	\$ 623.00	\$ 369.00	\$ 992.00	\$ 630.00	\$ 370.00	\$ 1,000.00
Locate/Mark Water Lines	Maintenance Worker II	20	\$ 41.13	\$ 822.60	\$ 517.00	\$ 306.00	\$ 823.00	\$ 520.00	\$ 310.00	\$ 830.00
Determine Monitoring Station Locations	Water Management Specialist	16	\$ 60.17	\$ 962.72	\$ 605.00	\$ 358.00	\$ 963.00	\$ 610.00	\$ 360.00	\$ 970.00
Measure Distances Between Logger Installations	Service Worker	24	\$ 49.56	\$ 1,189.44	\$ 747.00	\$ 443.00	\$ 1,190.00	\$ 750.00	\$ 450.00	\$ 1,200.00
Measure Distances Between Logger Installations	Maintenance Worker II	24	\$ 41.13	\$ 987.12	\$ 620.00	\$ 368.00	\$ 988.00	\$ 620.00	\$ 370.00	\$ 990.00
Design Review by Engineer	Engineer II	8	\$ 60.17	\$ 481.36	\$ 303.00	\$ 179.00	\$ 482.00	\$ 310.00	\$ 180.00	\$ 490.00

Budget Category (b) Land Purchase/Easement

Task 4	Easement Determination	Property Specialist	50	\$ 61.32	\$ 3,066.00	\$ 1,926.00	\$ 1,140.00	\$ 3,066.00	\$ 1,930.00	\$ 1,140.00	\$ 3,070.00
Sub-Total								\$ 8,504.00	\$ 5,370.00	\$ 3,180.00	\$ 8,550.00

Equipment		Hours	Rate	Total	Alta 62.80%	Colfax 37.20%	Sub-Total	Alta	Colfax	Grand Total
								Rounded up to nearest \$10	Rounded up to nearest \$10	
Locate/Mark Water Lines	Service Truck	16	\$ 11.00	\$ 176.00	\$ 111.00	\$ 65.00	\$ 176.00	\$ 120.00	\$ 70.00	\$ 190.00
Determine Monitoring Station Locations	Service Truck	16	\$ 11.00	\$ 176.00	\$ 111.00	\$ 65.00	\$ 176.00	\$ 120.00	\$ 70.00	\$ 190.00
Measure Distances	Service Truck	24	\$ 11.00	\$ 264.00	\$ 166.00	\$ 98.00	\$ 264.00	\$ 170.00	\$ 100.00	\$ 270.00
Sub-Total					\$ 388.00	\$ 228.00	\$ 616.00	\$ 410.00	\$ 240.00	\$ 650.00

Task 2 Sub-Total	\$ 9,120.00	\$ 5,490.00	\$ 3,250.00	\$ 9,200.00
10% contingency	\$ 912.00	\$ 549.00	\$ 325.00	\$ 920.00
Task 2 Total	\$ 10,032.00	\$ 6,039.00	\$ 3,575.00	\$ 10,120.00

\*\* 62.8% of the watermain in this study are in Alta, with the remaining 37.2% of the watermain in Colfax.

Task 6  
Environmental Documentation

Task	Employee assigned	Hours	Labor Rate	Total	Alta** 62.80%	Colfax** 37.20%	Sub-Total	Alta Rounded up to nearest \$10	Colfax Rounded up to nearest \$10	Total
CEQA Review	Environmental Specialist	80	\$ 60.32	\$ 4,825.60	\$ 3,031.00	\$ 1,795.00	\$ 4,826.00	\$ 3,040.00	\$ 1,800.00	\$ 4,840.00
Sub-Total							\$ 4,826.00	\$ 3,040.00	\$ 1,800.00	\$ 4,840.00
10% contingency							\$ 483.00	\$ 304.00	\$ 180.00	\$ 484.00
Task 3 Total							\$ 5,309.00	\$ 3,344.00	\$ 1,980.00	\$ 5,324.00

\*\* 62.8% of the watermains in this study are in Alta, with the remianing 32.8% of the watermains in Colfax.

Task 7 - Permitting: None required

Task 8 see following page for Task 8.2)

Equipment Procurement (Task 8.1 in work plan)

see following page for Task 8.2)				Labor				Alta		Colfax						
ment Procurement (Task 8.1 in work plan)				Rate	Total	Alta	Colfax		Rounded up	Rounded up						
Employee assigned		Hours				62.80%	37.20%	Sub-Total	to nearest \$10	to nearest \$10	Total					
Task																
Equipment selection and pricing	Water Management Specialist	8	\$	60.17	\$	481.36	\$	303.00	\$	179.00	\$	490.00				
Purchase Equipment	Water Management Specialist	8	\$	60.17	\$	481.36	\$	303.00	\$	179.00	\$	490.00				
								Sub-Total	\$	964.00	\$	620.00	\$	360.00	\$	980.00

Equipment	Quantity	Unit	Cost/ea	Total	Alta	Colfax	Sub-Total	Alta	Colfax	Total
								Rounded up to nearest \$10	Rounded up to nearest \$10	
Starter Logger Kit (40 Loggers)	1	Each	\$ 39,500.00	\$ 39,500.00	\$ 19,750.00	\$ 19,750.00	\$ 39,500.00	\$ 19,750.00	\$ 19,750.00	\$ 39,500.00
Additional Loggers - Alta	35	Each	\$ 880.00	\$ 30,800.00	\$ 30,800.00	\$ -	\$ 30,800.00	\$ 30,800.00	\$ -	\$ 30,800.00
Additional Loggers - Colfax	42	Each	\$ 880.00	\$ 36,960.00	\$ -	\$ 36,960.00	\$ 36,960.00	\$ -	\$ 36,960.00	\$ 36,960.00
Pipe Line Locator	1	Each	\$ 3,900.00	\$ 3,900.00	\$ 2,450.00	\$ 1,450.00	\$ 3,900.00	\$ 2,450.00	\$ 1,450.00	\$ 3,900.00
Toshiba Lap Top	1	Each	\$ 4,000.00	\$ 4,000.00	\$ 2,512.00	\$ 1,488.00	\$ 4,000.00	\$ 2,520.00	\$ 1,490.00	\$ 4,010.00
Sub-Total							\$ 115,160.00	\$ 55,520.00	\$ 59,650.00	\$ 115,170.00

Sub-Total	\$ 116,124.00	\$ 56,140.00	\$ 60,010.00	\$ 116,150.00
10% contingency	\$ 11,612.40	\$ 5,614.00	\$ 6,001.00	\$ 11,615.00
Task 4 Total	\$ 127,736.40	\$ 61,754.00	\$ 66,011.00	\$ 127,765.00

62.8% of the watermains in this study are in Alta, with the remianing 32.8% of the watermains in Colfax.



Task 8.2  
System Installation and Testing (Logger Deployment)  
see following page for rest of Task 8.2

Installation and Testing (Logger Deployment)								Alta		Colfax	
see following page for rest of Task 8.2				Labor		Alta**		Colfax**		Rounded up	
Task	Employee assigned	Hours	Rate	Total	62.80%	37.20%	Sub-Total	to nearest \$10	to nearest \$10	Total	
Program Loggers	Water Management Specialist	16	\$ 60.17	\$ 962.72	\$ 605.00	\$ 358.00	\$ 963.00	\$ 610.00	\$ 360.00	\$ 970.00	
Configure Computer	Water Management Specialist	24	\$ 60.17	\$ 1,444.08	\$ 907.00	\$ 538.00	\$ 1,445.00	\$ 910.00	\$ 540.00	\$ 1,450.00	
Deploy Loggers	Service Worker	80	\$ 49.56	\$ 3,964.80	\$ 2,490.00	\$ 1,475.00	\$ 3,965.00	\$ 2,490.00	\$ 1,480.00	\$ 3,970.00	
Deploy Loggers	Maintenance Worker II	80	\$ 41.13	\$ 3,290.40	\$ 2,067.00	\$ 1,224.00	\$ 3,291.00	\$ 2,070.00	\$ 1,230.00	\$ 3,300.00	
Sub-Total							\$ 9,664.00	\$ 6,080.00	\$ 3,610.00	\$ 9,690.00	

Equipment		Hours		Rate		Total		Alta		Colfax		Total						
								62.80%	37.20%	Rounded up to nearest \$10	Rounded up to nearest \$10							
Large Truck	Service Truck	80	\$	11.00	\$	880.00	\$	553.00	\$	327.00	\$	880.00	\$	560.00	\$	330.00	\$	890.00
Vacuum	Vacuum Trailer	50	\$	8.00	\$	400.00	\$	252.00	\$	148.00	\$	400.00	\$	260.00	\$	150.00	\$	410.00
Sub-Total									\$	1,280.00	\$	820.00	\$	480.00	\$	1,300.00		

Sub-Total	\$ 10,944.00	\$ 6,900.00	\$ 4,090.00	\$ 10,990.00
10% contingency	\$ 1,094.40	\$ 690.00	\$ 409.00	\$ 1,099.00
Task 6 Total	\$ 12,038.40	\$ 7,590.00	\$ 4,499.00	\$ 12,089.00

\*\* 62.8% of the watermains in this study are in Alta, with the remianing 32.8% of the watermains in Colfax.

PCWA computations include portion of work efforts and materials included in Task 8.2 and and all of Task 9

The logic of estimation required splitting of task calculations

Task 8.2 System Installation and Testing

Task 9 Implement Leak Detection and Repair Program (Includes Task 9.1 and 9.2)

Task	Employee assigned	Hours	Labor Rate	Total Labor	Alta** 50.00%	Colfax** 50.00%	Sub-Total	Alta Rounded up to nearest \$10	Colfax Rounded up to nearest \$10	Total
Coordination of logger installation, locations, etc	Water Management Specialist	250	\$ 60.17	\$ 15,042.50	\$ 9,447.00	\$ 5,596.00	\$ 15,043.00	\$ 9,450.00	\$ 5,600.00	\$ 15,050.00
Documentation of leaks and repairs	Water Management Specialist	150	\$ 60.17	\$ 9,025.50	\$ 5,669.00	\$ 3,357.00	\$ 9,026.00	\$ 5,670.00	\$ 3,360.00	\$ 9,030.00
Installation of Monitoring Sites	Service Worker	225	\$ 49.56	\$ 11,151.00	\$ 5,576.00	\$ 5,575.00	\$ 11,151.00	\$ 5,580.00	\$ 5,580.00	\$ 11,160.00
Installation of Monitoring Sites	Maintenance Worker II	225	\$ 41.13	\$ 9,254.25	\$ 4,628.00	\$ 4,627.00	\$ 9,255.00	\$ 4,630.00	\$ 4,630.00	\$ 9,260.00
25 sites in each jurisdiction						<b>Sub-Total</b>	<b>\$ 44,475.00</b>	<b>\$ 25,330.00</b>	<b>\$ 19,170.00</b>	<b>\$ 44,500.00</b>
Construction Administration included in estimate of total hours at 10% which is consistent with PCWA documented experience										

Equipment	Hours	Rate	Total	Alta	Colfax	Sub-Total	Alta Rounded up to nearest \$10	Colfax Rounded up to nearest \$10	Total
Service Truck	225	\$ 11.00	\$ 2,475.00	\$ 1,238.00	\$ 1,237.00	\$ 2,475.00	\$ 1,240.00	\$ 1,240.00	\$ 2,480.00
Vacuum Trailer	225	\$ 8.00	\$ 1,800.00	\$ 900.00	\$ 900.00	\$ 1,800.00	\$ 900.00	\$ 900.00	\$ 1,800.00
Backhoe	40	\$ 12.00	\$ 480.00	\$ 240.00	\$ 240.00	\$ 480.00	\$ 240.00	\$ 240.00	\$ 480.00
Compressor	40	\$ 4.00	\$ 160.00	\$ 80.00	\$ 80.00	\$ 160.00	\$ 80.00	\$ 80.00	\$ 160.00
Concrete Saw	40	\$ 8.00	\$ 320.00	\$ 160.00	\$ 160.00	\$ 320.00	\$ 160.00	\$ 160.00	\$ 320.00
						<b>Sub-Total</b>	<b>\$ 5,235.00</b>	<b>\$ 2,620.00</b>	<b>\$ 5,240.00</b>

Material	Quantity	Unit	Cost/ea	Total	Alta	Colfax	Sub-Total	Alta Rounded up to nearest \$10	Colfax Rounded up to nearest \$10	Total
8 Inch PVC Pipe (valve riser)	200	Feet	\$ 6.50	\$ 1,300.00	\$ 650.00	\$ 650.00	\$ 1,300.00	\$ 650.00	\$ 650.00	\$ 1,300.00
Valve Box	50	Each	\$ 24.90	\$ 1,245.00	\$ 623.00	\$ 622.00	\$ 1,245.00	\$ 630.00	\$ 630.00	\$ 1,260.00
Valve Cap	50	Each	\$ 17.32	\$ 866.00	\$ 433.00	\$ 433.00	\$ 866.00	\$ 440.00	\$ 440.00	\$ 880.00
							<b>Sub-Total</b>	<b>\$ 3,411.00</b>	<b>\$ 1,720.00</b>	<b>\$ 3,440.00</b>

Outside Services	Quantity	Unit	Cost/ea	Total	Alta	Colfax	Sub-Total	Alta Rounded up to nearest \$10	Colfax Rounded up to nearest \$10	Total
Paving	800	Sq Ft	\$ 11.00	\$ 8,800.00	\$ 4,400.00	\$ 4,400.00	\$ 8,800.00	\$ 4,400.00	\$ 4,400.00	\$ 8,800.00
							<b>Sub-Total</b>	<b>\$ 8,800.00</b>	<b>\$ 4,400.00</b>	<b>\$ 8,800.00</b>

Sub-Total	\$ 53,121.00	\$ 29,670.00	\$ 23,510.00	\$ 61,980.00
10% contingency	\$ 5,312.10	\$ 2,967.00	\$ 2,351.00	\$ 6,198.00
<b>Task 5 Total</b>	<b>\$ 58,433.10</b>	<b>\$ 32,637.00</b>	<b>\$ 25,861.00</b>	<b>\$ 68,178.00</b>

\*\* 62.8% of the watermains in this study are in Alta, with the remianing 32.8% of the watermains in Colfax.

Task 10  
Program Evaluation and Reporting

(Two years of download and monitoring)

Task	Employee assigned	Hours	Labor Rate	Total	Alta** 62.80%	Colfax** 37.20%	Sub-Total	Alta Rounded up to nearest \$10	Colfax Rounded up to nearest \$10	Total
Two-week Download	Canal Operator	200	\$ 47.71	\$ 9,542.00	\$ 5,993.00	\$ 3,549.00	\$ 9,542.00	\$ 6,000.00	\$ 3,550.00	\$ 9,550.00
Two-week Data Analysis	Water Management Specialist	100	\$ 60.17	\$ 6,017.00	\$ 3,779.00	\$ 2,238.00	\$ 6,017.00	\$ 3,780.00	\$ 2,240.00	\$ 6,020.00
Sub-Total							\$ 15,559.00	\$ 9,780.00	\$ 5,790.00	\$ 15,570.00

Equipment	Hours	Rate	Total	Alta	Colfax	Sub-Total	Alta	Colfax	Total
				62.80%	37.20%		Rounded up to nearest \$10	Rounded up to nearest \$10	
Large Pickup	200	\$ 11.00	\$ 2,200.00	\$ 1,382.00	\$ 818.00	\$ 2,200.00	\$ 1,390.00	\$ 820.00	\$ 2,210.00
Sub-Total						\$ 2,200.00	\$ 1,390.00	\$ 820.00	\$ 2,210.00

Sub-Total	\$ 17,759.00	\$ 11,170.00	\$ 6,610.00	\$ 17,780.00
10% contingency	\$ 1,775.90	\$ 1,117.00	\$ 661.00	\$ 1,778.00
Task 7 Total	\$ 19,534.90	\$ 12,287.00	\$ 7,271.00	\$ 19,558.00

\*\* 62.8% of the watermains in this study are in Alta, with the remianing 32.8% of the watermains in Colfax.

NOTE: there is no task effort associated with budget category (e): Environmental Compliance/Mitigation/Enhancement

Budget Category (f): Construction Administration has been included in the costs for Task 9 at a rate of 10% which is consistent with documented PCWA experience in the filed on similar projects

Budget Category (h): Construction Contingency has been documented in each task - please refer to all preceding spread sheets. This rate is calculated (where applicable) at a rate of 10% which is documented exper

**Budget Category (g): Other**

[illegible]

## CABY Water Trust

Budget Category	Rate	# Units	Total	Match	Requested
<i>Category A: Direct Project Administration Costs</i>					
<b>TASK 1: ADMINISTRATION &amp; MANAGEMENT</b>					
<i>AR Personnel Services (rates include salaries, benefits and related direct costs )</i>	<b>Rate (\$/hour)</b>	<b>Number of hours/units</b>			
<i>Project Director</i>	56.50	25	\$ 1,412.50		
<i>Project Manager</i>	41.45	40	\$ 1,658.00		
<i>Project Coordinator</i>	33.51	40	\$ 1,340.40		
<i>Contract Manager</i>	43.66	40	\$ 1,746.40		
<i>AR Personnel Services Total</i>			\$ 6,157.30	\$ -	\$ 6,157.30
<i>AR Expenses</i>					
<i>Telephone, fax (estimated)</i>			\$ 300.00		
<i>Supplies (laptop computer and software)</i>			\$ 1,000.00		
<i>Travel (miles x \$/mile)</i>	0.5	1000.00	\$ 500.00		
<i>Meeting Expenses (number of meetings x \$)</i>	100	4	\$ 400.00		
<i>AR Expenses Total</i>			\$ 2,200.00	\$ -	\$ 2,200.00
<i>Subcontractors</i>					
<i>CABY Staff</i>	100	20	\$ 2,000.00		
<i>Sierra Nevada Alliance</i>			\$ 500.00		
<i>Subcontractors Total</i>			\$ 2,500.00	\$ -	\$ 2,500.00
<i>Total Task 1</i>			\$ 10,857.30	\$ -	\$ 10,857.30
<b>TASK 2: LABOR COMPLIANCE PROGRAM</b>	<b>Not Applicable</b>				
<i>Total Task 2</i>					
<b>TASK 3: REPORTING</b>					
<i>Included in admin task above</i>					
<i>Total Task 3</i>					

Budget Category	Rate	# Units	Total	Match	Requested
<i>Category C: Planning/Design/Engineering/Environmental Documentation</i>					
<b>TASK 4: ASSESSMENT &amp; EVALUATION (PLANNING)</b>					
<b>Task 4.1: Establish Water Trust Advisory Board</b>					
<i>AR Personnel Services</i>					
<i>Project Director</i>	56.50	40	\$ 2,260.00		
<i>Project Manager</i>	41.45	146	\$ 6,051.70		
<i>AR Personnel Services Total</i>			\$ 8,311.70		\$ 8,311.70
<i>AR Expenses Total</i>			\$ -	\$ -	\$ -
<i>Subcontractors</i>					
<i>CABY Staff</i>	100	30	\$ 3,000.00		
<i>Sierra Nevada Alliance</i>			\$ 1,000.00		
<i>Subcontractors Total</i>			\$ 4,000.00	\$ -	\$ 4,000.00
<i>Total Task 4.1</i>			\$ 12,311.70	\$ -	\$ 12,311.70
<b>Task 4.2: Train Advisory Board Members</b>					
<i>AR Personnel Services</i>					
<i>Project Director</i>	56.50	60	\$ 3,390.00		
<i>Project Manager</i>	41.45	36	\$ 1,490.00		
<i>AR Personnel Services Total</i>			\$ 4,880.00	\$ -	\$ 4,880.00
<i>AR Expenses</i>					
<i>Workshop/Training Expenses</i>			\$ 1,000.00	\$ -	
<i>AR Expenses Total</i>			\$ 1,000.00	\$ -	\$ 1,000.00
<i>Subcontractors</i>					
<i>CABY Staff</i>	100	10	\$ 1,000.00		\$ 1,000.00
<i>Subcontractors Total</i>			\$ 1,000.00		\$ 1,000.00
<i>Total Task 4.2</i>			\$ 6,880.00	\$ -	\$ 6,880.00
<b>Task 4.3: Define Water Rights Acquisition Process</b>					
<i>AR Personnel Services</i>					
<i>Project Director</i>	56.50	110	\$ 6,215.00		

Budget Category	Rate	# Units	Total	Match	Requested
<i>Economist</i>	100	75	\$ 7,500.00		
<i>Project Manager</i>	41.45	127	\$ 5,265.00		
<b>AR Personnel Services Total</b>			<b>\$ 18,980.00</b>	<b>\$ 12,000.00</b>	<b>\$ 6,980.00</b>
<b>AR Expenses</b>					
<i>Travel (\$1000 in mileage, \$3000 lodging and food)</i>			\$ 4,000.00		
<b>AR Expenses Total</b>			<b>\$ 4,000.00</b>	<b>\$ 3,000.00</b>	<b>\$ 1,000.00</b>
<b>Total Task 4.3</b>			<b>\$ 22,980.00</b>	<b>\$ 15,000.00</b>	<b>\$ 7,980.00</b>
<b>Task 4.4: Develop Water Right Selection Criteria and Water Trust Principles</b>					
<b>AR Personnel Services</b>					
<i>Project Director</i>	56.50	34	\$ 1,921.00		
<i>Project Manager</i>	41.45	60	\$ 2,487.00		
<b>AR Personnel Services Total</b>			<b>\$ 4,408.00</b>	<b>\$ -</b>	<b>\$ 4,408.00</b>
<b>AR Expenses Total</b>			<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Subcontractors</b>					
<i>CABY Staff</i>	100	10	\$ 1,000.00		
<b>Subcontractors Total</b>			<b>\$ 1,000.00</b>	<b>\$ -</b>	<b>\$ 1,000.00</b>
<b>Total Task 4.4</b>			<b>\$ 5,408.00</b>	<b>\$ -</b>	<b>\$ 5,408.00</b>
<b>Task 4.5: Identify Priority and Strategic Reaches</b>					
<b>AR Personnel Services</b>					
<i>Project Director</i>	56.50	95	\$ 5,367.50		
<i>River Scientist</i>	64.6	170	\$ 10,982.00		
<i>Project Manager</i>	41.45	100	\$ 4,145.00		
<b>AR Personnel Services Total</b>			<b>\$ 20,494.50</b>	<b>\$ 12,000.00</b>	<b>\$ 8,494.50</b>
<b>AR Expenses</b>					
<i>Travel (miles x \$/mile)</i>	4,000	1	\$ 2,000.00	\$ -	\$ -
<b>AR Expenses Total</b>			<b>\$ 2,000.00</b>	<b>\$ -</b>	<b>\$ 2,000.00</b>
<b>Total Task 4.5</b>			<b>\$ 22,494.50</b>	<b>\$ 12,000.00</b>	<b>\$ 10,494.50</b>

Budget Category	Rate	# Units	Total	Match	Requested
<b>Task 4.6: Outreach to Build Community Support &amp; Identify Willing Sellers</b>					
<b>AR Personnel Services</b>					
<i>Project Director</i>	56.50	140	\$ 7,910.00		\$ -
<i>Project Manager</i>	41.45	134	\$ 5,554.30		\$ -
<b>AR Personnel Services Total</b>			<b>\$ 13,464.30</b>	<b>\$ 5,000.00</b>	<b>\$ 8,464.30</b>
<b>AR Expenses</b>					
<i>Travel (miles x \$/mile)</i>	1000	1	\$ 500.00	\$ 500.00	\$ -
<i>Supplies: Outreach Materials</i>			\$ 5,000.00	\$ 3,500.00	\$ 1,500.00
<i>Workshop Expenses</i>			\$ 1,000.00	\$ 1,000.00	\$ -
<b>AR Expenses Total</b>			<b>\$ 6,500.00</b>	<b>\$ 5,000.00</b>	<b>\$ 1,500.00</b>
<b>Subcontractors</b>					
<i>Sierra Nevada Alliance</i>			\$ 10,000.00	\$ 5,000.00	
<b>Subcontractors Total</b>			<b>\$ 10,000.00</b>	<b>\$ 5,000.00</b>	<b>\$ 5,000.00</b>
<b>Total Task 4.6</b>			<b>\$ 29,964.30</b>	<b>\$ 15,000.00</b>	<b>\$ 14,964.30</b>
<b>TOTAL TASK 4</b>			<b>\$ 100,038.50</b>	<b>\$ 42,000.00</b>	<b>\$ 58,038.50</b>
<b>Category D: Construction/Implementation</b>					
<b>TASK 5: IMPLEMENTATION</b>					
<b>Task 5.1: Establish CABY Water Trust</b>					
<b>AR Personnel Services</b>					
<i>Project Director</i>	56.50	90	\$ 5,085.00	\$ 2,800.00	
<i>Project Manager</i>	41.45	119	\$ 4,915.00	\$ -	
<b>AR Personnel Services Total</b>			<b>\$ 10,000.00</b>	<b>\$ 2,800.00</b>	<b>\$ 7,200.00</b>
<b>AR Expenses</b>					
<i>Travel (# of miles X \$/mile)</i>	2000	1	\$ 1,000.00	\$ 1,000.00	
<i>Supplies</i>			\$ 500.00		
<b>AR Expenses Total</b>			<b>\$ 1,500.00</b>	<b>\$ 1,000.00</b>	<b>\$ 500.00</b>
<b>Subcontractors</b>					
<i>CABY Staff</i>	100	235	\$ 23,500.00	\$ 5,000.00	



Budget Category	Rate	# Units	Total	Match	Requested
<i>Subcontractors Total</i>			\$ 23,500.00	\$ 5,000.00	\$ 18,500.00
<i>Total Task 5.1</i>			\$ 35,000.00	\$ 8,800.00	\$ 26,200.00
<b>Task 5.2: Prepare Water Trust Cases</b>					
<b>AR Personnel Services</b>					
<i>Project Director</i>	56.50	136	\$ 7,684.00	\$ 6,000.00	
<i>Project Manager</i>	41.45	160	\$ 6,616.00	\$ -	
<i>Attorney</i>	100	160	\$ 16,000.00		
<i>Water Rights Acquisition Coordinator</i>	75	416	\$ 31,200.00		
<i>AR Personnel Services Total</i>			\$ 61,500.00	\$ 6,000.00	\$ 55,500.00
<b>AR Expenses</b>					
<i>Travel (miles x \$/mile)</i>	1490	1	\$ 745.00	\$ -	\$ 745.00
<i>AR Expenses Total</i>			\$ 745.00	\$ -	\$ 745.00
<i>Total Task 5.2</i>			\$ 62,245.00	\$ 6,000.00	\$ 56,245.00
<b>TOTAL TASK 5</b>			\$ 97,245.00	\$ 14,800.00	\$ 82,445.00
<b>Category G: Other</b>					
<b>Task 6: Develop and Maintain CABY Project-Specific Webpage</b>					
<b>AR Personnel Services</b>					
<i>Project Manager</i>	41.45	11	\$ 460.00		\$ 460.00
<i>AR Personnel Services Total</i>			\$ 460.00		\$ 460.00
<b>AR Expenses</b>					
<i>Equipment</i>					
<i>Supplies</i>					
<i>AR Expenses Total</i>			\$ -		
<b>Subcontractors</b>					
<i>CABY Staff</i>	100	8	\$ 800.00		\$ 800.00
	55	48	\$ 2,640.00		\$ 2,640.00
	95	24	\$ 2,280.00		\$ 2,280.00
<i>Subcontractors Total</i>	250		\$ 5,720.00		\$ 5,720.00

Budget Category	Rate	# Units	Total	Match	Requested
<b>Total Task 6</b>			<b>\$ 6,180.00</b>		<b>\$ 6,180.00</b>
<b>Task 7: Data Management</b>					
<i>AR Personnel Services</i>					
<i>Project Director</i>	56.50	5	\$ 282.50		\$ 282.50
<i>Project Manager</i>	41.45	15	\$ 637.50		\$ 637.50
<i>Project Coordinator</i>	33.51	20	\$ 670.20		\$ 670.20
<b>AR Personnel Services Total</b>			<b>\$ 1,590.20</b>		<b>\$ 1,590.20</b>
<i>AR Expenses</i>					
<i>Supplies</i>					
<i>Equipment</i>					
<b>AR Expenses Total</b>					
<i>Subcontractors</i>					
<i>CABY Staff</i>	65	40	\$ 2,600.00		\$ 2,600.00
<b>Subcontractors Total</b>			<b>\$ 2,600.00</b>		<b>\$ 2,600.00</b>
<b>Total Task 7</b>			<b>\$ 4,190.20</b>		<b>\$ 4,190.20</b>
<b>Project Total</b>			<b>\$ 218,511.00</b>	<b>\$ 56,800.00</b>	<b>\$ 161,711.00</b>